





National Food Service Management Institute The University of Mississippi



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National Food Service Management Institute
The University of Mississippi

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Building the Future Through Child Nutrition

The National Food Service Management Institute was authorized by Congress in 1989 and established in 1990 at The University of Mississippi in Oxford and is operated in collaboration with The University of Southern Mississippi in Hattiesburg. The Institute operates under a grant agreement with the United States Department of Agriculture, Food and Nutrition Service.

PURPOSE

The purpose of the National Food Service Management Institute is to improve the operation of child nutrition programs through research, education and training, and information dissemination.

MISSION

The mission of the National Food Service Management Institute is to provide information and services that promote the continuous improvement of child nutrition programs.

VISION

The vision of the National Food Service Management Institute is to be the leader in providing education, research, and resources to promote excellence in child nutrition programs.

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Introduction to Preparing Healthy School Meals

Time: 1 hour



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The University of Mississippi







Important Terms

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method.

School Nutrition Assistant

Throughout this series of lessons, this title is used to refer to all employees in the school kitchen with the exception of the manager. Some school districts use the term cooks, technicians, or school nutrition employees.

Just-In-Time Preparation

Preparing a menu item in small enough amounts so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Manager

Throughout this series of lessons, this title is used to refer to the person who is responsible for the day-to-day operation of the school nutrition program at the school site.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The chemical substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.

School Nutrition Team

The school nutrition team includes the school site manager and all the school nutrition assistants.







Introduction to Preparing Healthy School Meals

Welcome to the introductory lesson for *Culinary Techniques for Healthy School Meals*. This is the first of a series of lessons designed to help school nutrition teams prepare healthier school meals that appeal to the taste of today's students.

School menus should be planned to be consistent with the principles of the *Dietary Guidelines for Americans*. Well-planned menus and carefully purchased food items bring the right foods in the back door. However, what happens to food from the back door of the kitchen to the serving line is the responsibility of the school nutrition team.

The school nutrition manager and assistants are the school nutrition team.

The team's job is to prepare and serve nutritious, quality meals at school. Team members hold the key to healthy school meals. This series of lessons will help every team member gain more knowledge about food production and learn new culinary skills. As team members learn more about nutrition, food production, and culinary techniques, every school nutrition program will improve.

What changes have already been made in your school nutrition program to serve meals that are consistent with the *Dietary Guidelines for Americans*?

What changes have already been made in your school nutrition program to continue to improve the quality of the foods that are served?

Five-Step Process in Preparing Quality Foods

1. Plan food production for just-in-time service.

It is the responsibility of the cook to follow the planned production schedule. Since most foods taste their best immediately after they are prepared, the production schedule times food preparation so that foods are prepared as close to the time of service as possible. For many foods, this means planning the final steps for production to be done during the service period so food is cooked and served continuously. Many different menu items – from broccoli, to toasted cheese sandwiches, to spaghetti noodles – are at their peak of quality when cooked just-in-time for service.

Just-in-time is the term used in all the lessons to mean cooking in small batches as needed, during the service period. Some school nutrition personnel use the terms *cooking to the line* or *batch cooking* to mean the same thing. In other words, foods are cooked as they are needed on the serving line.



Introduction to Preparing Healthy School Meals, continued

2. Review the Quality Score Card and the recipe.

School nutrition professional have quality standards for various menu items just like professionals in other fields. The quality standards for foods can be grouped into those that tell about

- Appearance (how the food should look when it is prepared according to a recipe),
- Texture and Consistency (how the food should feel in the mouth and how easy it is to cut),
- Flavor (how the food tastes), and
- Service Temperature (the ideal temperature for serving the food).

The quality standards for a food are like a target. They are the goal of food preparation. In these lessons, the quality standards have been organized as Quality Score Cards for groups of foods. Before beginning food preparation, it is important to review the Quality Score Card to know how the finished product should look and taste.

The second thing that should be reviewed is the recipe. Every profession has rules and procedures to follow. In the foodservice profession, the rules and procedures necessary for quality food production are described in recipes. The recipes used for these lessons are from the U.S. Department of Agriculture, Food and Nutrition Service and can be found at www.nfsmi. org. The cook should read the complete recipe before moving to the next step.

3. Organize equipment and ingredients.

A well-organized cook saves time and energy by assembling all ingredients and equipment before starting food preparation. This process is called *mise en place* or to put in place. Use the recipe or directions to find out what is needed. Then get together the equipment and ingredients. Stay organized during food production by keeping things in order and cleaning as needed.

Professional chefs know that *mise en place* means more than just assembling ingredients and utensils. They explain that this term also means a state of mind. It means thinking about all the things that must be done during food preparation and thinking about how to handle situations that could arise during food production. To help school nutrition professionals move to this state of mind, the lessons include information about culinary techniques and why they work the way they do. Knowing why helps a professional cook prevent problems during food production and solve them when they do happen.

4. Use the right culinary technique.

A professional uses the right culinary technique for the food that is to be prepared. Each of the lessons includes video demonstrations of one or more culinary techniques. The demonstration shows a step-by-step way of preparing the food to meet quality standards. To be sure to understand each step of a new culinary technique, it may be desirable to watch the video lesson more than one time.

A recipe includes a description of the right culinary technique to use for that food. By learning the basic culinary technique and then following the direction on a recipe, the results will be a quality product.



Introduction to Preparing Healthy School Meals, continued

5. Deliver a quality product.

A professional cook evaluates each product using the Quality Score Card before it is placed on the serving line. By stepping back and taking an objective look at each product after it is prepared, culinary skills can be continually improved. This is the way a professional chef becomes a master of food preparation skills. Sometimes it is helpful to have another school nutrition team member use the Quality Score Card to evaluate a product. This may be a more objective evaluation of the food. Remember, the food on the serving line represents the efforts of the whole school nutrition team, so everyone has a stake in preparing quality food.

The Quality Score Card is a measure of success and it is a way to spot food production problems that need to be corrected. When a food does not meet quality standards, it should not be served. Several of the lessons include special information that will help determine why a food did not meet standards and how to avoid the problem the next time.

Assessing the quality of all food products should be done before every service. Each lesson will include a reminder to use this five-step process. Culinary Techniques for Healthy School Meals is a series of lessons that can be used by the school nutrition team as a group or by individuals on the team.

Video clips are part of each lesson. The video clips demonstrate culinary techniques used by schools. After each lesson, there will be time to practice using what has been discussed and demonstrated. Each lesson includes a Culinary Practice that is a planned way for school nutrition assistants to practice using the new culinary techniques with the manager serving as their coach. The culinary practice is really a team activity because school nutrition assistants will work together during food production and will also work together to evaluate the food product.

This series of lessons can have a positive effect on each person on the school nutrition team. Whether the school nutrition assistant is new to school nutrition or an experienced performer, continuing to learn and grow in the job is part of the professional commitment.

To continue to improve school nutrition programs every person must be willing to learn new ways to produce quality foods, and be willing to evaluate their food products according to accepted standards.

This series of lessons will give each person the information needed to produce nutritious, quality meals, but the commitment to use the information must come from each team member.







Quality Score Card for Meat, Poultry, and Fish

Date: Name of Menu Iter	n:			
Proudly Prepared by:				
Quality Scored by:				
Directions: When the food is ready to serve, use a meets the standard and NO when it does not. Mathe food being evaluated. Use the COMMENTS Remember, if a food does not meet the quality standards, in	rk N/A (section to	Not App o explain	licable) v why a fo	when a specific quality standard does not apply to ood does not meet a standard.
QUALITY STANDARD	YES	NO	N/A	COMMENTS
APPEARANCE				
Product appears moist.	O	0	О	
Product has been trimmed of any excess visible fat.	O	0	О	
Product has been drained and no cooking fat is visible.	О	О	О	
Color is a rich brown, characteristic of the meat, poultry, or fish item.	О	О	О	
Browning is even and correct for the product (not too brown).	О	О	О	
Portions are uniform in size.	0	О	О	
TEXTURE OR CONSISTENCY				
Product is tender and easily chewed.	О	О	О	
Product can be pierced with a fork with minimum pressure.	О	О	О	
Product is firm and moist.	О	О	О	
FLAVOR AND SEASONING				
Product is juicy.	О	О	О	
Flavor is fresh and appropriate for the product (no refrigerator taste or freezer burn).	О	О	О	
Seasonings enhance but do not overpower the taste (no greasy taste, or too much salt).	О	О	О	
SERVICE TEMPERATURE				
Meat products served hot - 150 °F–180 °F or above	0	0	О	
Poultry products served hot - 165 °F–180 °F or above	О	0	О	
Meat or poultry products served cold – 40 °F or below	0	0	О	







Baked Cajun Fish

Meat/N	Meat/Meat Alternate					Main Dishes	D-46
	stociloged	50 Se	50 Servings	100 S	100 Servings	Diractions	
		Weight	Measure	Weight	Measure		i
	Paprika		2 tsp		1 tbsp 1 tsp	Mix paprika, granulated garlic, onion salt, red pepper, black or white pepper, oregano, and thyme in a small bowl. Reserve for step 3.	
	Granulated garlic		2 tsp		1 Tbsp 1 tsp		
	Onion salt		2 tsp		1 Tbsp 1 tsp		
	Red pepper		¾ tsp		1 1/2 tsp		
	Ground black or white pepper		¾ tsp		1 1/2 tsp		
	Dried oregano		1 tsp		2 tsp		
	Dried thyme		1 tsp		2 tsp		
	Frozen fish portions (3 oz each)	9 lb 7 oz	50 each	18 lb 14 oz	100 each	2. Place 25 fish portions into each ungreased steamtable pan (12" x 20" x 2 ½"). For 50 servings, use 2 pans. For 100 servings, use 4 pans.	
	Lemon juice		½ cup		1 cup	 Sprinkle ¼ cup of lemon juice and 1 Tbsp 2 tsp of seasoning mix over the top of each pan. 	
	Margarine or butter, melted	6 oz	% cup	12 oz	1 ½ cups	 Drizzle % cup of melted margarine over the seasonings. 	
						5. Bake: Conventional oven: 350° F for 20 minutes Convection oven: 350° F for 15 minutes Fish should flake easily with a fork. CCP: Heat to 145° F or higher for at least 15 seconds.	
						6. CCP: Hold for hot service at 135° F or higher.	

SERVING:	YIELD:		VOLUME:		
1 portion provides 2 oz equivalent meat/meat alternate.	50 Servings:	about 7 lb 14 oz	50 Servings:	2 steamtable pans	

100 Servings: 4 steamtable pans 100 Servings: about 15 lb 12 oz

Edited 2004



Main Dishes

Baked Cajun Fish

Meat/Meat Alternate

Special Tips:

1) For best results, batch-cook fish throughout the meal.
2) 3 oz boneless, skinless chicken breasts or thighs may be substituted for fish.
CCP: Bake chicken to 165° F or higher for at least 15 seconds.

Nutrients Per Serving					
Calories 1	128 Sa	Saturated Fat	1.75 g	Iron	0.63 mg
Protein 12.5	68 g Ch	Cholesterol	43 mg	Calcium	6 mg
Carbohydrate 0.4	0.43 g Vitamin A	tamin A	220 IU	Sodium	145 mg
Total Fat 8.1	8.12 g Vitamin C	tamin C	1.3 mg	Dietary Fiber	0.1 g



Preparing Fruits

Time: 1 hour



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Important Terms

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method. The culinary techniques described in this lesson include preparing fresh fruits and baking fruits.

Ethylene gas

A naturally occurring gas produced when some fruits and vegetables begin to ripen.

Just-In-Time Preparation

Preparing a menu item in small enough amounts that it will be at its peak of quality when placed on the service line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The chemical substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.

Seasonal Produce

Fruits and vegetables that are at their peak of production at a particular time of the year. Typically this produce is more flavorful and less expensive. Seasonality of produce will depend on region.



Keep Fresh Produce Flavorful

When produce arrives at the back door, it should be in excellent condition. From that point on, the quality is controlled by the school nutrition assistants in the school kitchen. The quality of fresh produce, both fruits and vegetables is affected by:

Temperature – For every 10 °F increase in temperature beyond the recommended temperature, a produce item can lose half its shelf life. Store produce at the right temperature for the variety.

Product Rotation – When produce is delivered, the date should be written on the box. Then, the oldest produce should be used first.

Storage Conditions – Different fruits and vegetables should be stored according to recommendations from produce experts.

Proper Handling During

Preparation – Fresh produce, both fruits and vegetables, benefit from being prepared just in time for service.

Some fresh fruits must be ripe before they are refrigerated or served. Some fruits ripen at room temperature. Once ripened, the fruits should be refrigerated. Fruits that ripen at room temperature:

- Avocados
- Kiwifruit
- Nectarines
- Peaches
- Pears
- Plums

Never refrigerate bananas.

Ethylene gas is naturally produced from some fruits and vegetables. Ethylene gas will cause certain fruits and vegetables to ripen and deteriorate quickly. Ethylene producing fruits and vegetables should be kept separate from ethylene sensitive produce.

Ethylene Producing Produce

Apples*
Apricots*
Asparagus*
Avocado*
Bananas*
Cantaloupes
Cherimoya*

Figs Guava

Honeydew melon

Kiwifruit Mangos* Nectarines* Papayas* Passion fruit*

Peaches*

Pears*

Persimmons

Plaintains

Plums

Prunes

Tomatoes*

*Ethylene producing *and* ethylene sensitive produce

Ethylene Sensitive Produce

Broccoli

Brussels sprouts

Cabbage

Carrots

Cauliflower

Cucumbers

Eggplant

Grapes

Green beans

Leafy greens

Lettuce Okra

Peas

Peppers

Spinach

Squash

Sweet potatoes

Watermelon



Using, Handling, and Storing Fruits

Form of Fruit Available	Where to Use	How to Handle	How to Store
Fresh	Serve fresh to to students in salads.	Serve in age-appropriate pieces.	Refrigerate or dry storage depending on fruit.
Frozen	Use in baked products. Use in fruit sauces. Serve as fruit cups while partially frozen.	Thaw frozen fruits in the refrigerator and use them immediately when thawed or still icy.	Keep frozen until ready to use.
Canned	Serve chilled. Use in fruit salads. Use in fruit sauces.	Chill canned fruits before they are added to a cold fruit dish.	Store at 70 °F or less. Date cases or cans when they are received and rotate.
Dried	Use in hot cereals. Use in granola mix. Use in fruit bars and cookies.	Chop into bite-size peices, if necessary.	Store dried fruits in airtight containers to maintain their flavor.
Juice	Serve at breakfast or lunch. Use as a cooking medium. Use as the liquid in congealed salads.	Thaw frozen juice in the refrigerator and use immediately when thawed.	Frozen juice should be kept frozen until ready to use. Canned juices should be stored at 70 °F. Fresh juice should be kept refrigerated.





Flavor Enhancement Chart

Herbs, spices, fruit juices, or citrus zest or peel can enhance the flavors of fruits and fruit-based dishes.

Herbs commonly used with fruits

Name	Form	Taste	Uses
Anise seeds	Seeds	Sweet licorice flavor	Cookies, cakes, fruit
			salads, sauces
Cilantro	Fresh, dried	Sweet aroma, mildly	Fruit salsas
		peppery	
Fennel seeds	Whole	Flavor is similar to anise,	Baked apple dishes
		pleasant sweet licorice	
		flavor	
Mint	Fresh, dried	Strong and sweet with a	Fruit salads, sauces,
		cool aftertaste	frozen desserts

Spices commonly used with fruits

Name	Form	Taste	Uses
Allspice	Whole berries, ground	The aroma suggests a blend of cloves, cinnamon, and nutmeg; sweet flavor	Fruit cakes, pies, sauces
Cardamom	Whole, ground	Mild, pleasant, sweet ginger-like flavor	Baked products, fruit salads, particularly good with blueberries
Cinnamon	Whole sticks, ground	Warm, spicy, sweet flavor	Cakes, pies, fruit sauces, fruit salads
Chili powder blend (Pico de Gallo)	Ground	Blend of chili peppers	Fruit salad
Cloves	Whole, ground	Hot, spicy, sweet, penetrating flavor	Baked fruit desserts
Ginger	Fresh, whole, ground	Aromatic, sweet, spice, penetrating flavor	Fruit salads, cookies, baked fruit desserts
Nutmeg	Whole, ground	Spicy, pleasant flavor	Baked fruit desserts, fruit sauces





Quality Score Card for Fresh Fruits and Fruit Menu Items

Date:	Name of Menu It	em:			
Proudly Prepared by:					
Quality Scored by:					
meets the standard and N (O when it does not. N	1ark N/A	(Not A	pplicable	to evaluate the quality. Mark YES when the food when a specific quality standard does not apply y a food does not meet a standard.
Remember, if a food does not m	neet the quality standards,	it should	not be pla	ced on the	e serving line.
QUALITY STANDARD		YES	NO	N/A	COMMENTS
APPEARANCE					
Color is typical of the ripe	fruit(s).	0	0	0	
Color is fresh (not marred from oxidation).	by discoloration	0	0	0	
Fruit pieces are similar in	size.	0	0	0	
Fruit pieces are intact.		0	0	0	
Garnish is edible and appro	priate for the dish.	0	0	0	
TEXTURE OR CONSIS	STENCY				
Fruit is at the peak of ripe	ness.	0	0	0	
All pieces of the fruit have	the same texture.	0	0	0	
FLAVOR AND SEASON	NING				
Fruits have a pleasing, slight	ly sweet, ripe flavor.	0	0	0	
If seasonings have been us detectable but not over		0	0	О	
Seasonings enhance the fro	uit flavor.	0	0	0	
If a dressing or sauce is use the fruit (mild, not ove		0	0	0	
SERVICE TEMPERATU	J RE				
Chilled: 3/1 ° 38 °F					



Quality Score Card for Baked Fruit and Fruit Desserts

Name of Menu Item:

Proudly Prepared by:						
Quality Scored by:						
Directions: When the food is ready to serve, use this Quality Score Card to evaluate the quality. Mark YES when the food meets the standard and NO when it does not. Mark N/A (Not Applicable) when a specific quality standard does not apply to the food being evaluated. Use the COMMENTS section to explain why a food does not meet a standard. Remember, if a food does not meet the quality standards, it should not be placed on the serving line.						
QUALITY STANDARD	YES	NO	N/A	COMMENTS		
APPEARANCE						
Fruit pieces are similar in size.	0	0	0			
Fruit pieces are intact.	0	0	0			
Garnish is edible and appropriate for the dish.	0	0	0			
Pastry or topping has a golden brown color.	0	0	0			
Pastry has a blistery surface.	0	0	0			
TEXTURE OR CONSISTENCY						
All pieces of the fruit have the same texture.	0	0	0			
Pastry has a flaky or mealy texture.	0	0	0			
Pastry cuts easily.	0	0	0			
FLAVOR AND SEASONING						
Fruits have a pleasing, slightly sweet, ripe flavor.	0	0	0			
If seasonings have been used, they are detectable but not overpowering.	0	0	0			
Seasonings enhance the fruit flavor.	0	0	0			
Pastry has a pleasant, bland flavor.	0	0	0			
SERVICE TEMPERATURE						
Pastry Dessert: 60 °-70 °F	0	0	0			
Hot Baked Fruit: 160 °-180 °F	\circ	\circ	\circ			



Culinary Practice Score Card for Fruits

Name(s):							
Purpose: The purpose of the activity is to practice Preparing Fruits.							
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous pages for a description of each technique.							
Name of the Recipe:							
Date for Production:							
Directions: The manager and school nutrition assistant(s) will select a recipe for fruit that culinary techniques described in this lesson. Check YES or NO when each step is complete activity may be completed individually or with a partner. The manager will make this assig the lesson.)	ed. (This pract	tice					
	YES	NO					
Plan food production for just-in-time service.							
Did you plan food production for just-in-time service?	О	0					
Review the Quality Score Card and the recipe.							
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?		\circ					
Did you review the Quality Score Card so you will know how the finished product should look and taste?		O					
Organize equipment and ingredients.							
Did you assemble all the equipment needed?	О	0					
Did you assemble all of the ingredients needed?		0					
Use the right culinary technique.							
Did you use the culinary technique correctly?		\circ					
Deliver a quality product.							
Did you use the Quality Score Card to evaluate the product?		0					
Did you review the product with the manager?	О	0					
Discuss the following questions with the manager before serving.							
How can the appearance of the food be improved?							
How can the flavor or taste of the food be improved?							
How can the texture and tenderness of the food be improved?							
How can the service temperature of the food be improved?							
The manager's signature indicates this practice has been completed satisfactorily. The manager show submit it to the central office to document the completion of the lesson.	ıld keep this o	n file or					
Name of Manager: Date Signed:							





Preparing Vegetables

Time: 1 hour



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Important Terms

Blanch

To dip a food item in to boiling water for a very short time and then to chill very quickly to briefly and partially cook it.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method. The culinary techniques discussed in this lesson include steaming, stir-frying, and roasting.

Just-In-Time Preparation

This term is used throughout the lessons to mean preparing a menu item in small enough quantities so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The chemical substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.

Steaming

A moist-heat cooking technique in which heat is transferred from steam to the food being cooked by direct contact.

Stir-Frying

A dry-heat cooking technique similar to sautéing. Foods are cooked over very high heat using little fat while stirring briskly and constantly.

Roasting

Foods are cooked in the oven, using dry heat. When vegetables are roasted, they are generally sweeter and more tender.

Water-Soluble Vitamins

Vitamins that can dissolve in water and thus can be lost during food preparation. They include the B vitamins and vitamin C.

Seasonal Produce

Fruits and vegetables that are peak at a particular time of the year. Typically this produce is more flavorful and less expensive. Seasonality of produce will depend on region.





Flavor Enhancement Chart

Herbs, spices, fruit juices, or citrus zest or peel can enhance the flavors of fruits and fruit-based dishes.

					Seas	Seasoning Sensational Vegetables	Sensatio	nal Veg	getables	-		700	50 1/4 cup Proportions	roport	ions
Product	Amount	Ginger Powder	Dill*	Tarragon*	Mint*	American Asian**	Asian**	Cajun	Curry	Indian	 Italian	Mexican	Mexican Tex Mex	Water	Oil
Baked Beans	S														
Dried	2 lbs					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Canned	#10 (7 lbs)					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Black-Eyed Peas	Peas														
Dried	2 lbs		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Frozen	5 lbs		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Canned	5 lbs drained wt		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Broccoli (chopped)	(paddo)														
Fresh stems florets	5 lbs trimmed 2.5 lbs + 2.5 lbs = 5 lbs					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Frozen	5 lbs 4.5 lbs thawed & cooked					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Carrots															
Fresh	5 lbs trimmed	1 tsp	4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Frozen	5 lbs	1 tsp	4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Canned	5 lbs drained wt	l tsp	4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Cauliflower															
Fresh	5 lbs (aprx. 3.5 heads)		4 Tbsp/ 2 Tbsp			3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Frozen	5 lbs					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz



Flavor Enhancement Chart, continued

					Seas	S guino	Seasoning Sensational Vegetables	nal Veg	çetables	7.0		50 1,	50 1/4 cup Proportions	roport	ions
Product	Amount	Ginger Powder	Dill*	Tarragon*	X	American Asian**	Asian**	Cajun	Curry	Indian	Italian	Mexican Tex Mex	Тех Мех	Water	Oil
Collard Greens	sus														
Frozen	5 lbs					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Green Beans														•	
Fresh	5 lbs		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Frozen	5 lbs		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Canned 5 lbs (approx.1 #10) drained wt	5 lbs drained wt					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Green Peas															
Frozen	5 lbs		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp	2 Tbsp/ 1 Tbsp	3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Canned 5 lbs (approx.1 #10) drained wt	5 lbs drained wt		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp	2 Tbsp/ 1 Tbsp	3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Mixed Vegetables	ables														
Frozen	5 lbs		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Canned 5 lbs (approx.1 #10) drained wt	5 lbs drained wt		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Potatoes, French Fries	ench Fries														
Frozen	4 lbs					3 Tbsp		2 Tbsp		2 Tbsp		2 Tbsp			
Spinach															
Frozen cooked & drained wt	6 lbs 14 lbs 13 oz					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Whole Kernel Corn	el Corn														
Frozen	5 lbs		4 Tbsp/ 2 Tbsp	2 Tbsp/ 1 Tbsp		3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
Canned 5 lbs (approx.1 #10) drained wt	5 lbs drained wt					3 Tbsp	6 Tbsp		4 Tbsp		6 Tbsp		5 Tbsp	4 oz	2 oz
	1 1 1		- -												

Seasoning Mix: Mix herbs and spices in oil, add water and let stand for 15 minutes. Stir and add to cooked vegetables.

Dry Mix: Should be sprinkled over potatoes after they have been fried and drained.

^{*1}st measurement is fresh, 2nd is dry

^{**}Asian recipe: Should use 1 oz. seasame oil and 1 oz neutral oil like peanut or corn oil.



Flavor Enhancement Chart, continued

					Sp	Spice Mixture Chart	ure Cha	rt			50 1/4 cup Proportions	ip Prope	ortions	
Mixture	Salt	 Pepper	Garlic Powder	Onion Powder	Ginger Powder	Curry Chili Powder Powder	Chili Powder	umin	Dry Mustard	Paprika		Tarragon	Basil	 Parsley
American	1 tsp	1 tsp	2 tsp	2 tsp										1 Tbsp
Asian	l tsp		1 Tbsp	3 Tbsp	2 tsp				2 tsp					2 tsp
Cajun	3/4 tsp	1 tsp	2 tsp	2 tsp						1/4 tsp				
Curry	1 tsp	1/2 tsp	1 Tbsp	1 ¹ /2 Tbsp	1 tsp	1 tsp						1 tsp		
Indian	1 tsp		2 tsp	1 tsp		2 tsp								
Italian	1 tsp	1/2 tsp	2 ¹ / ₂ Tbsp	2 Tbsp							1 tsp		2 tsp	
Mexican	1 tsp		2 tsp	1 tsp			2 tsp							
Tex Mex	l tsp	1/2 tsp	1 Tbsp	1 ¹ / ₂ Tbsp			4 tsp	1/2 tsp		1/2 tsp	1 tsp			

					Sp	Spice Mixture Chart	ure Cha	rt Lt				500 Servings	rvings	
Mixture	Salt	Pepper	Garlic Powder	Onion Powder	Ginger Powder	Curry Powder	Curry Chili Powder Powder	Cumin	Dry Mustard	Paprika	Oregano	Dry Cumin Mustard Paprika Oregano Tarragon	Basil	Parsley
American	3 Tbsp + 1 tsp	3 Tbsp + 1 tsp	6 Tbsp + 2 tsp	6 Tbsp + 2 tsp										1/2 c + 2 Tbsp
Asian	3 Tbsp + 1 tsp		1/2 c + 2 Tbsp	13/4 c + 2 Tbsp	6 Tbsp + 2 tsp				6 Tbsp + 2 tsp					6 Tbsp + 2 tsp
Cajun	2 Tbsp + 1 ¹ /2 tsp	3 Tbsp + 1 tsp	6 Tbsp + 2 tsp	6 Tbsp + 2 tsp						2 1/2 tsp				
Curry	3 Tbsp + 1 tsp	1 Tbsp + 2 tsp	1/2 c + 2 Tbsp	3/4 c + 3 Tbsp	3 Tbsp + 1 tsp	3 Tbsp + 1 tsp						3 Tbsp + 1 tsp		
Indian	3 Tbsp + 1 tsp		6 Tbsp + 2 tsp	3 Tbsp + 1 tsp		6 Tbsp + 2 tsp								
Italian	3 Tbsp + 1 tsp	1 Tbsp + 2 tsp	1 1/2 c + 1 tsp	1 1/4 c							3 Tbsp + 1 tsp		6 Tbsp + 2 tsp	
Mexican	3 Tbsp + 1 tsp		6 Tbsp + 2 tsp	3 Tbsp + 1 tsp			6 Tbsp + 2 tsp							
Tex Mex	3 Tbsp + 1 tsp	1 Tbsp + 2 tsp	1/2 c + 2 Tbsp	3/4 c + 3 Tbsp			3/4 c + 4 tsp	1 Tbsp + 2 tsp		1 Tbsp + 2 tsp	2 Tbsp + 1 tsp			





Vegetable Steamer Chart

Timetable for Cooking or Steaming Fresh or Frozen Vegetables

For 100 Servings, 1/4 Cup Each

Timetable for Cooking (esh of Trozen	- Grand Lot		oo servings, 17	_
				BOII	ING	STEAMING
VegetablesFresh or (As Purchased)	Amount to Purchase Frozen	Ready to Cook (Pounds)	Amount of Water (Pounds)	Cooking Time After Water Boils (Quarts)	Time at 5 Pounds Pressure (Minutes)	(Minutes)
Asparagus: spears cuts and tipsFrozen	Fresh 12.3	20.7 12.3	11.0 1 1/4	3 1/4 7 to 10	10 to 25 5 to 10	7 to 10
Beans or peas, blackeye	Fresh	19	9.7	2 1/2	30 to 45	20 to 40
	Frozen	8.9	8.9	1 3/4	15 to 30	20 to 30
Beans, green, cut	Fresh	9	7.9	1 3/4	15 to 30	20 to 30
	Frozen	8.7	8.7	1	10 to 20	10 to 15
Beans, lima:	Fresh	21.1	9.3	2 1/2	15 to 25	15 to 20
Baby	Frozen	9.2	9.2	1 1/2	12 to 15	10 to 15
Fordhook	Frozen	9.0	9.0	1 1/2	6 to 12	12 to 20
Beet greens	Fresh	28.6	13.7	water on leaves	15 to 25	15 to 25
Beets, whole for slicing	Fresh	13.0	9.5	to cover	45 to 60	60 to 75
Broccoli: spears cut or chopped	Fresh	10.6	8.6	2 1/4	10 to 25	7 to 10
	Frozen	10.4	10.4	1 1/2	10 to 15	5 to 10
	Frozen	10.4	10.4	1 1/2	6 to 20	10 to 20
Brussel sprouts	Fresh	11.7	8.9	6	10 to 20	5 to 12
	Frozen	9.6	9.6	1 1/2	10 to 15	5 to 10
Cabbages (green and red): shredded wedges	Fresh Frozen	7.3 11.6	6.5 10.5	1 1/2 1 3/4	10 to 15 15 to 20	5 to 12 12 to 20
Carrots: whole (for slicing) cuts and tips	Fresh	11.9	8.3	2 1/2	20 to 30	15 to 30
	Frozen	9.5	9.5	1	8 to 10	3 to 5
Cauliflower, flowerets	Fresh	11.3	7.0	4 1/2	15 to 20	8 to 12
	Frozen	10.9	10.9	1 1/2	10 to 12	4 to 5
Celery, 1" pieces	Fresh	12.4	10.6	3 1/2	15 to 20	10 to 15
Chard	Fresh	15.8	14.5	water on leaves	15 to 25	15 to 25
Collard greens	Fresh	9.6	7.1	3 1/2	20 to 40	15 to 30
	Frozen	10.8	10.8	1 3/4	30 to 40	20 to 40
Corn: on cob (1/2 medium ear) whole kernel	Fresh	27	17.6	6 or to cover	5 to 15	8 to 10
	Frozen	9.1	9.1	1 1/2	5 to 10	5 to 10
Eggplant, pieces or slices	Fresh	14.8	12.0	3 1/2	15 to 20	10 to 15
Kale	Fresh	8.5	5.7	2	25 to 45	15 to 35
	Frozen	10.6	10.6	1 3/4	20 to 30	15 to 30
Mustard greens	Fresh	7.6	7.1	water on leaves	15 to 25	15 to 25
chopped	Frozen	8.6	8.6	1 3/4	20 to 30	15 to 20
Okra, whole	Fresh	10.3	9.0	2	10 to 15	8 to 15
	Frozen	8.5	8.5	1 1/4	3 to 5	3 to 5
Onions: Mature, quartered if large	Fresh	14.1	12.4	7	20 to 35	20 to 35

Continued



Vegetable Steamer Chart, continued

Timetable for Cooking or Steaming Fresh or Frozen Vegetables

For 100 Servings, 1/4 Cup Each

8					8 /	•
				BOII	ING	STEAMING
VegetablesFresh or (As Purchased)	Amount to Purchase Frozen	Ready to Cook (Pounds)	Amount of Water (Pounds)	Cooking Time After Water Boils (Quarts)	Time at 5 Pounds Pressure (Minutes)	(Minutes)
Parsnips, 3" pieces	Fresh	12.3	10.2	4 3/4	20 to 30	15 to 20
Peas and carrots	Frozen	9.2	9.2	1	8 to 10	3 to 5
Peas, green shelled	Fresh Frozen	24.7 9.9	9.4 9.9	2 1	10 to 20 5 to 10	10 to 20 3 to 5
Potatoes, whole	Fresh	11.3	9.2	5	30 to 45	30 to 45
Rutabagas, 1" cubes	Fresh	12	10.2	2 1/2	20 to 30	15 to 30
Soybeans, green	Fresh	14.5	9.4	1 3/4	10 to 20	
Spinach, leaf	Fresh Frozen	13.1 15.3	11.5 15.3	water on leaves 1 1/4	10 to 20 5 to 10	4 to 5 5 to 10
Squash, winter: Butternut, pieces mashed	Fresh Frozen	13.3 14.3	11.2 14.3	5 1/4	15 to 30	15 to 20 20 to 25 (covered)
Succotash	Frozen	10.6	10.6	2	6 to 15	12 to 20
Sweet potatoes, whole	Fresh	11.0	8.6	5	30 to 45	20 to 40
Turnip green chopped	Fresh Frozen	15.4 10.5	10.8 10.5	water on leaves 1 3/4	15 to 25 20 to 30	15 to 25 15 to 20
Vegetables, mixed	Frozen	12.3	12.3	1	12 to 20	12 to 20

NOTE: Cooking times for fresh vegetables are approximate; they can differ with variety, maturity, quality, and size of vegetables.



Quality Score Card for Cooked Vegetables

Date:	Name of Menu Ite	em:			
Proudly Prepared by:					
Quality Scored by:					
meets the standard and NO where NO where NO where NO where NO where NO is a standard and NO where NO where NO is a standard and NO is a standard and NO where NO is a standard and NO is a standard and NO where NO is a standard and NO where NO is a standard and NO is a standard and NO where NO is a standard and N	hen it does not. M	ark N/ A	(Not A	pplicable	to evaluate the quality. Mark YES when the food e) when a specific quality standard does not apply y a food does not meet a standard.
Remember, if a food does not meet t	he quality standards,	it should	not be pla	iced on the	e serving line.
QUALITY STANDARD		YES	NO	N/A	COMMENTS
APPEARANCE					
Bright color typical of the vege	table.	0	0	0	
Vegetable pieces are similar in s	size.	0	0	О	
Vegetable pieces are intact (piecovercooked with a mushy a		О	0	0	
There is no visible oil or fat.		0	0	0	
Garnish is edible and appropri	ate for the dish.	0	0	0	
TEXTURE OR CONSISTER	NCY				
Vegetable is at the peak of ripe	ness.	0	О	О	
All pieces of the vegetable have	the same texture.	0	0	0	
FLAVOR AND SEASONING	G				
Vegetable has a definite, good f	flavor.	0	О	О	
Seasonings are detectable but n	not overpowering.	0	О	О	
Seasonings enhance the vegetal	ble flavor.	0	О	О	
A minimal amount of salt has l (recipe used).	been added	О	0	0	
A minimal amount or no fat h	as been added	О	0	0	
If a sauce is used, it complement (mild, not overpowering).	s the vegetable	О	0	0	
SERVICE TEMPERATURE					
160 °F – 180 °F		\circ	\circ	\circ	





Culinary Practice Score Card for Cooked Vegetables

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Vegetables.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous pages each technique.	for a descript	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for vegetables the culinary techniques described in this lesson. Check YES or NO when each step is compactivity may be completed individually or with a partner. The manager will make this assign the lesson.)	pleted. (This p	oractice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	0	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	0
Did you assemble all of the ingredients needed?	О	О
Use the right culinary technique.		
Did you use the culinary technique correctly?	0	0
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	0	0
Did you review the product with the manager?	О	О
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager shows submit it to the central office to document the completion of the lesson.	ld keep this o	n file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Salads

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Salad Greens

Arugula – medium green leaves; pungent flavor

Endive, Belgian – tight, elongated head; slightly bitter flavor

Endive, Curly – thick, narrow leaves with curly edges; bitter flavor

Escarole – flat, curly-edged leaves is a loose head; bitter flavor

Lettuce, Butterhead – tender, loose, round head of leaves; mild flavor

Lettuce, Iceberg – crisp, pale-green leaves, compact head; very mild flavor.

Lettuce, Leaf – crisp-tender, curly leaves, loose cluster; red or green; mild flavor

Lettuce, Romaine – elongated head, crisp leaves; fairly mild flavor

Radicchio – fairly tender, red-purple leaves, cabbage-like head; slightly bitter flavor

Spinach – tender, deep green leaves; rigid stems should be removed before serving; fairly mild flavor

Watercress – small, round leaves on slender stalks; delicate texture; peppery, pungent flavor

Other Salad Ingredients:

Asparagus Avocados

D 1

Broccoli

Cabbage - green and red

Carrots

Cauliflower

Celery

Cucumbers

Iicama

Mushrooms

Onions – white, red, or spring

Peppers – green, orange, red, and vellow

Radishes

Summer squash – yellow crookneck and zucchini

Tomatoes

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method. The culinary techniques described in this lesson include preparing fresh fruits and baking fruits.

Danger Zone

According to the *FDA Food Code*, the temperatures between 41 °F and 135 °F are ideal for bacteria to grow. All potentially hazardous foods should be kept below 41 °F or above 135 °F.

Ethylene gas

A naturally occurring gas produced when some fruits and vegetables begin to ripen.

Julienne

Cutting vegetables or other food products into matchstick shapes.

Just-In-Time Preparation

Preparing a menu item in small enough amounts that it will be at its peak of quality when placed on the service line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The chemical substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.

Seasonal Produce

Fruits and vegetables that are at their peak of production at a particular time of the year. Typically this produce is more flavorful and less expensive. Seasonality of produce will depend on region.



Keep Fresh Produce Flavorful

When produce arrives at the back door, it should be in excellent condition. From that point on, the quality is controlled by the school nutrition assistants in the school kitchen. The quality of fresh produce, both fruits and vegetables is affected by:

Temperature – For every 10 °F increase in temperature beyond the recommended temperature, a produce item can lose half its shelf life. Store produce at the right temperature for the variety.

Product Rotation – When produce is delivered, the date should be written on the box. Then, the oldest produce should be used first.

Storage Conditions – Different fruits and vegetables should be stored according to recommendations from produce experts.

Proper Handling During

Preparation – Fresh produce, both fruits and vegetables, benefit from being prepared just in time for service.

Some fresh fruits must be ripe before they are refrigerated or served. Some fruits ripen at room temperature. Once ripened, the fruits should be refrigerated. Fruits that ripen at room temperature:

- Avocados
- Kiwifruit
- Nectarines
- Peaches
- Pears
- Plums

Never refrigerate bananas.

Ethylene gas is naturally produced from some fruits and vegetables. Ethylene gas will cause certain fruits and vegetables to ripen and deteriorate quickly. Ethylene producing fruits and vegetables should be kept separate from ethylene sensitive produce.

Ethylene Producing Produce

Apples*

Apricots*

Asparagus*

Avocado*

Bananas*

Cantaloupes

Cherimoya*

Figs

Guava

Honeydew melon

Kiwifruit

Mangos*

Nectarines*

Papayas*

Passion fruit*

Peaches*

Pears*

Persimmons

Plaintains

Plums

Prunes

Tomatoes*

*Ethylene producing *and* ethylene sensitive produce

Ethylene Sensitive Produce

Broccoli

Brussels sprouts

Cabbage

Carrots

Cauliflower

Cucumbers

Eggplant

Grapes

Green beans

Leafy greens

Lettuce

Okra

Peas

Peppers

Spinach Squash

Sweet potatoes

Watermelon



Quality Score Card for Salads

Date:	Name of Menu It	em:			
Proudly Prepared by:					
Quality Scored by:					
meets the standard and NO v	when it does not. M Use the COMMEN	Iark N/A I TS secti	Not A ion to ex	pplicable plain wh	to evaluate the quality. Mark YES when the food e) when a specific quality standard does not apply by a food does not meet a standard.
QUALITY STANDARD	1 7	YES	NO	N/A	COMMENTS
APPEARANCE					
Bright color is typical of the f	resh greens.	0	0	0	
Bright color is typical of other ingredients (no discoloration		0	0	О	
Salad appears moist, not dry o	or excessively wet.	0	О	О	
Salad ingredients are even pied	ces.	О	0	О	
Salad ingredients appear crisp	, not limp.	О	0	О	
Garnish is edible and appropriat	e for the salad.	О	О	О	
TEXTURE OR CONSISTE	ENCY				
Salad ingredients are crisp, no	et soggy.	0	О	O	
Meat or pasta/rice salads are to not mushy.	ender but	О	О	0	
FLAVOR AND SEASONIN	G				
Salad ingredients have a fresh, di	istinctive flavor.	О	0	О	
Seasonings enhance the salad too salty or too tart.	but are not	0	0	0	
A choice of low-fat and/or fat dressings is available.	-free salad	0	О	0	
SERVICE TEMPERATURE	2				

O

0

Chilled 34 °F – 38 °F





Culinary Practice Score Card for Salads

Name(s):		
<i>Purpose:</i> The purpose of the activity is to practice Preparing Salads.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous pages feach technique.	or a descript	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for salad that is culinary techniques described in this lesson. Check YES or NO when each step is completed activity may be completed individually or with a partner. The manager will make this assign the lesson.)	d. (This prac	tice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	O
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	0
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	О	0
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	0
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved? How can the flavor or taste of the food be improved? How can the texture and tenderness of the food be improved? How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager should submit it to the central office to document the completion of the lesson.	ld keep this c	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Meat, Poultry, and Fish

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Braise

A moist-heat cooking method used for less tender, large cuts of meat.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method. The culinary techniques discussed in this lesson include roasting/baking, sautéing, braising, and stewing meat, poultry, and fish.

Dry Heat

Cooking without adding any liquid. Examples are roasting, broiling, pan-broiling, griddle broiling, and sautéing.

Just-In-Time Preparation

Preparing a menu item in small enough quantities so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Marinate

To soak a food in a seasoned liquid to flavor and tenderize the food. The liquid is called a marinade.

Meat

The edible portion of mammals, the main ones in the United States being cattle (beef), swine (pork), and sheep (mutton and lamb).

Moist Heat

Cooking with added moisture. Examples are braising, stewing, and poaching.

Mirepoix (miro-poy)

A seasoning mixture of two parts onion, one part celery, and one part carrots. Herbs and spices may be added. This coarse chopped vegetable mixture is added to meats that are roasted or braised for flavor. The juices are drained off when the meat is done and can then be served with the meat or used to make sauces and gravy. The juices should be chilled so that the fat can be removed.



Important Terms, continued

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Potentially Hazardous Food

Food that can support the growth of certain toxic microorganisms. This group includes meats, poultry, eggs, fish, and some plant foods. These foods should be kept cold (below 41 °F) or hot (above 135 °F). Between 41 °F–135 °F is the Danger Zone where microorganisms can grow quickly.

Poultry

Domestic birds kept for eggs and meat. The poultry products used most often in school meals are chicken and turkey.

Roast

A dry-heat technique of cooking meat in an oven with no added moisture. Baking is the same technique when applied to meat and poultry.

Sauté

To cook food quickly using small amount of fat, stirring to brown it evenly.

Sear

To brown meat on all sides before braising or stewing.

Simmer

To cook on low heat with added moisture such as stock or water (braising or stewing).



Dry Heat - Roasting or Baking

Roasting or baking is cooking meat, poultry, or fish in the oven without liquid and without a cover on the cooking vessel.

1. Remove all visible fat.

2. Season.

Follow the recipe. Add appropriate seasonings and flavorings to replace flavor lost when fat is removed. If a meat thermometer is used, place it in the thickest part of the meat, away from bone or fat. Since salt penetrates meat only about an inch and retards browning, most recipes suggest adding salt at the end of cooking. Do not add salt unless the recipe calls for it.

3. Place in the cooking utensil.

Do not cover and do not add any liquid. Place meat on a rack when appropriate so fat will drain and hot air can circulate on all sides.

4. Roast or bake in a slow oven until the internal temperature is at least 165 °F (or a higher temperature specified in the recipe).

Follow the recipe for the oven temperature. Some recipes for large pieces of meat or poultry suggest adding a mirepoix to the pan during the last half hour of roasting.

5. Remove from the oven and serve.

For large pieces of meat, like a turkey or a large roast, allow the meat to sit in a warm place for about 15 minutes before carving or slicing. This makes the meat firmer, juicier, and easier to slice. Meats should be sliced across the grain.

6. Hold cooked meat and poultry the correct way.

If the meat or poultry will not be served immediately, it should be covered and kept in a warmer at the correct temperature or chilled in the refrigerator. Never hold a meat product at room temperature.



Dry Heat - Sautéing

Sautéing is using high heat and a small amount of fat to cook meat, poultry, and fish rapidly. Searing and stir-frying are also asautéing technique.

1. Prepare the meat or poultry by making sure it is dry.

If a marinade has been used, drain it thoroughly and pat the food dry. Food with a lot of moisture will steam rather than sauté.

2. Add oil to the pan according to recipe.

A tilting braising pan is ideal for this technique. Measure the oil carefully.

3. Heat the oil; add the meat, poultry, or fish.

The meat, poultry, or fish pieces should be added to the pan in a single layer. If the pieces are touching, the product will steam, not sauté.

4. Cook the meat by gently turning until browned on all sides and cooked evenly.

Some recipes suggest that the cooked meat be removed from the pan and the remaining flavored juices be used to make a sauce. Follow the recipe.

5. Hold cooked meat and poultry the correct way.

Sautéed meals should be cooked in batches just-in-time for service. Covering a sautéed food during holding causes it to steam and the advantages of the sauté technique are lost. Serve immediately. Never hold a meat product at room temperature.



Moist Heat - Braising and Stewing

Braising and stewing are a combination of dry-heat and moist-heat cooking used for less tender cuts of meat. Braising is used for large cuts of meat. The same technique is called stewing when used for bite-sized pieces of meat, poultry, or fish.

1. Trim fat and prepare meat according to the recipe.

2. Sear the meat on all sides.

Searing meat before braising or stewing adds color and flavor. Follow the recipe to use a small amount of oil or preferably, no oil. Brown the meat on all sides in a hot pan. For large pieces of meat, use a pan in the oven or a steam-jacketed kettle. For smaller pieces, use a tilting braising pan, a grill, or brown in a hot oven.

3. Remove the meat from the pan and add a mirepoix.

Some recipes call for a mirepoix to be added to the pan and cooked. Follow the recipe.

4. Add the seared meat back to the cooking pan along with the liquid for cooking.

When a steam jacketed kettle is used for braising or stewing, more liquid will be needed than when using a roasting pan in the oven or when using a tilting braising pan. Follow the recipe and avoid using too much liquid, which weakens the flavor of a sauce made with the liquid.

5. Cover tightly and simmer until tender.

Follow the recipe for the temperature and time for the equipment being used. Do not allow the liquid to boil. The size of the cut of meat and the kind of meat will also influence the cooking time. Braised or stewed meats are done when they are tender.

6. Remove the meat from the cooking liquid.

Some recipes suggest the cooking liquid be cooked an additional time to reduce the volume and concentrate the flavor. The cooking liquid may also be thickened with a roux or slurry. How to thicken using a roux or slurry is described in the lesson on Preparing Sauces.

7. Hold cooked meat and poultry the correct way.

If the meat, poultry, or fish will not be served immediately, it should be covered and kept in a warmer at the correct temperature or chilled in the refrigerator. Never hold a meat product at room temperature.





Baked Cajun Fish

Meat/Meat Alternate	a)					Main Dishes	D-46
abul	ngredients	S 05	50 Servings	100 S	100 Servings	Directions	
		Weight	Measure	Weight	Measure		i
Paprika			2 tsp		1 tbsp 1 tsp	 Mix paprika, granulated garlic, onion salt, red pepper, black or white pepper, oregano, and thyme in a small bowl. Reserve for step 3. 	
Granulated garlic	ırlic		2 tsp		1 Tbsp 1 tsp		
Onion salt			2 tsp		1 Tbsp 1 tsp		
Red pepper			% tsp		1 1/2 tsp		
Ground black	Ground black or white pepper		% tsp		1 1/2 tsp		
Dried oregano			1 tsp		2 tsp		
Dried thyme			1 tsp		2 tsp		
Frozen fish portions (3 oz each)	ortions	9 lb 7 oz	50 each	18 lb 14 oz	100 each	2. Place 25 fish portions into each ungreased steamtable pan (12" x 20" x 2 1/2"). For 50 servings, use 2 pans. For 100 servings, use 4 pans.	
Lemon juice			% cup		1 cup	 Sprinkle ¼ cup of lemon juice and 1 Tbsp 2 tsp of seasoning mix over the top of each pan. 	
Margarine or butter, melted	butter, melted	9 oz	% cup	12 oz	1 ½ cups	 Drizzle % cup of melted margarine over the seasonings. 	
						 Bake: Conventional oven: 350° F for 20 minutes Convection oven: 350° F for 15 minutes Fish should flake easily with a fork. CCP: Heat to 145° F or higher for at least 15 seconds. 	
						6. CCP: Hold for hot service at 135° F or higher.	

	2 steamtable pans
VOLUME:	50 Servings:
	about 7 lb 14 oz
YIELD:	50 Servings:
SERVING:	1 portion provides 2 oz equivalent meat/meat alternate.

100 Servings: about 15 lb 12 oz

100 Servings: 4 steamtable pans

Edited 2004



D-46

Main Dishes

Baked Cajun Fish

Meat/Meat Alternate

Special Tips:

1) For best results, batch-cook fish throughout the meal.

2) 3 oz boneless, skinless chicken breasts or thighs may be substituted for fish.

CCP: Bake chicken to 165° F or higher for at least 15 seconds.

Nutrients Per Serving		
Calories 128	Saturated Fat 1.75 g Iron	Iron 0.63 mg
Protein 12.58 g	.2.58 g Cholesterol 43 mg	43 mg Calcium 9 mg
Carbohydrate 0.43 g	0.43 g Vitamin A 220 IU	220 IU Sodium 145 mg
Total Fat 8.12 g	8.12 g Vitamin C 1.3 mg	1.3 mg Dietary Fiber 0.1 g



Ingradients	20	50 Servings	100	100 Servings	Directions
200	Weight	Measure	Weight	Measure	
Vegetable stock, non-MSG		2 cups		1 qt	1. Dissolve the cornstarch in the vegetable stock.
Cornstarch		% cup	2 1/4 oz	% cup	2. Heat over medium heat until thickened. Cool.
Vegetable oil		2 cups		1 qt	Add the oil to the cooled, thickened stock mixture.
White vinegar		2 cups		1 qt	 Combine the vinegar, sugar, pepper, granulated garlic, chili powder, cumin, and oregano in a bowl. Whisk into the stock mixture.
Sugar	12 oz	1 ½ cups	1 lb 8 oz	3 cups	
Ground black or white pepper		1 Tbsp 1 tsp		2 Tbsp 2 tsp	
Granulated garlic		1 Tbsp 1 tsp		2 Tbsp 2 tsp	
Chili powder		2 Tbsp		¼ cup	
Ground cumin		1 1/4 tsp		2 1/2 tsp	
Dried oregano		2 tsp		1 Tbsp 1 tsp	
Raw, boned, skinless chicken breast, ½ slices	qı 6		18 lb		Pour marinade over the sliced chicken. Marinate overnight in the refrigerator.
					Drain the chicken. Discard any leftover marinade.
					7. Prepare no more than 50 portions per batch.
					Preheat grill to 350° F. Add 9 lb of the sliced chicken and saute about 10 minutes. Saute remaining chicken. Remove to steamtable pan (12" x 20" x 2 ½). For 50 servings, use 1 pan. For 100 servings, use 2 pans.
Canned liquid pack whole-	2 lb 2 oz	1 qt 1 cup	4 lb 4 oz	2 qt 2 cups	8. Combine corn, onions, green peppers, canned
kernel corn, drained OR Frozen whole-kernel corn	OR 2 lb 4 oz	(% No. 10 can) OR 1 qt 2 ¼ cups	OR 4 lb 4 oz	(1 No. 10 can) OR 3 qt ½ cup	comarces, and sarsa in por. Cook 5 in 8 oz (3 qt) of this mixture over low heat until vegetables are heated thoroughly, about 5
*Fresh onions, diced	12 oz	2 cups	1 lb 8 oz	1 qt	יוווומנסס לימם גל ססטולים מוומנים:
*Fresh green peppers, diced	8 oz	1 ½ cups 2 Tbsp	1 lb	3 1/4 cups	
Canned diced tomatoes, drained	1 lb	1 % cups 2 Tbsp (¼ No. 10 can)	2 lb	3 % cups (% No. 10 can)	
Canned salsa	1 lb	1 % cups 2 Tbsp	2 lb	3 % cups	CCP: Heat to 165° F or higher for at least 15 seconds.



Chicken Fajitas

Meat/Meat Alternate-Vegetable-Grains/Breads			Main Disnes	
d flour tortillas,	50 each	100 each	9. CCP: Hold	9. CCP: Hold for hot service at 135° F or higher.
o-inch (at least 0.9 oz each)			For each serving, I filling on each tortil tortilla over filling.	For each serving, place No. 8 scoop (½ cup) of filling on each tortilla. If desired, fold or roll tortilla over filling.
Comments:		Marketing Guide for Selected Items	Selected Item	S
יספר זימו אבנווופן סמומכי	Ľ	Food as Purchased for	50 Servings	100 Servings
	Σ	Mature onions	14 oz	1 lb 12 oz
	Gr	Green peppers	11 oz	1 lb 6 oz
SERVING:	YIELD:	ı	VOLUME:	ı
1 fajita provides 2 oz equivalent meat/meat alternate,	Iternate, 50 Servings:	about 12 lb 4 oz (filling)	50 Servings:	about 1 gallon 2 1/4 guarts (filling)

Edited 2004

100 Servings: about 3 gallons 2 cups (filling)

100 Servings: about 24 lb 8 oz (filling)

Special Tips: 1) If a grill is not available, a steam-jacketed kettle may be used to sauté the chicken.

2) Lowfat sour cream (1 Tbsp per serving) and salsa (2 Tbsp per serving) make excellent gamishes.

3) This makes an attractive lunch plate when served with Refried Beans (I-15).



Chicken Fajitas

Meat/Meat Alter	Meat/Meat Alternate-Vegetable-Grains/Breads	\$			Main Dishes		D-40
	Nutrients Per Serving						
	Calories	241	Saturated Fat	1.41 g	Iron	2.11 mg	
	Protein	22.00 g	Cholesterol	51 mg	Calcinm	54 mg	
	Carbohydrate	23.38 g	Vitamin A	240 IU	Sodium	284 mg	
	Total Fat	6.28 g	Vitamin C	6.7 mg	Dietary Fiber	1.8 g	





Chili con Carne with Beans

Meat/Meat Alternate-Vegetable					Main Dishes	D-20
character and	20	50 Servings	100	100 Servings	7.5.5	
Supposition	Weight	Measure	Weight	Measure	Clections	i
Raw ground beef (no more than 20% fat)	dl 7		14 lb		Brown ground beef. Drain. Continue immediately.	
*Fresh onions, chopped OR Dehydrated onions	14 oz OR 2 ½ oz	2 ½ cups OR 1 ½ cups	1 lb 12 oz OR 5 oz	1 qt 3⁄3 cup OR 2 ½ cups	 Add onions, granulated garlic, green pepper (optional), pepper, chili powder, paprika, onion powder, and ground cumin. Cook for 5 minutes. 	
Granulated garlic		1 Tbsp 1 ½ tsp		3 Tbsp		
*Fresh green pepper, chopped (optional)	8 oz	1 ½ cups 2 Tbsp	1 lb	3 1/4 cups		
Ground black or white pepper		2 tsp		1 Tbsp 1 tsp		
Chili powder		3 Tbsp		¼ cup 2 Tbsp		
Paprika		1 Tbsp		2 Tbsp		
Onion powder		1 Tbsp		2 Tbsp		
Ground cumin	1 oz	% cup	2 oz	½ cup		
Canned diced tomatoes, with juice	3 lb 3 oz	1 qt 2 ¼ cups (½ No. 10 can)	6 lb 6 oz	3 qt ½ cup (1 No. 10 can)	 Stir in tomatoes, water, and tomato paste; mix well. Bring to boil. Reduce heat. Cover. Simmer slowly, stirring occasionally until thickened, about 40 minutes. 	
Water		2 qt 1 cup		1 gal 2 cups		
Canned tomato paste	1 lb 12 oz	3 cups 2 Tbsp (¼ No. 10 can)	3 lb 8 oz	1 qt 2 ¼ cups (½ No. 10 can)		
Canned pinto or kidney beans, drained OR	3 lb 6 oz OR	1 qt 3 ½ cups (½ No. 10 can) OR	6 lb 12 oz OR	3 qt 3 cups (1 No. 10 can) OR	 Stir in beans. Cover and simmer. Stir occasionally. 	
*Dry pinto or kidney beans, cooked	2 lb 4 oz	1 qt 2 cups	4 lb 8 oz	3 qt	CCP: Heat to 155° F or higher for 15 seconds. OR	
(see Special Tip)					If using previously cooked and chilled beans: CCP: Heat to 165° F or higher for at least 15 seconds.	
					5. Pour into serving pans.	
					6. CCP: Hold for hot service at 135° F or higher.	
					Portion with 4 oz ladle (1/2 cup).	
Reduced fat Cheddar cheese, shredded (optional)	1 lb 8 oz	1 qt 2 cups	3 lb	3 qt	7. Garnish with cheese (optional).	



Chili con Carne with Beans

Meat/Meat Alternate-Vegetable		Main Dishes	D-20	
Comments: *See Marketing Guide.	Marketing Guide for Selected Items Food as Purchased for 50 Servings	elected Items 50 Servings	100 Servings	
	Mature onions	1 lb	2 lb	
	Green peppers	11 oz	1 lb 6 oz	
	Dry pinto beans, dry OR Dry kidney beans	1 lb OR 1 lb	2 lb OR 2 lb	

	ings: about 1 gallons 2 1/4 quarts
VOLUME:	50 Servings:
	about 16 lb 4 oz
YIELD:	50 Servings:
SERVING:	½ cup (4 oz ladle) provides 2 oz equivalent meat/meat alternate and % cup of vegetable.

about 3 gallons 2 cups 100 Servings: 100 Servings: about 32 lb 8 oz

Tested 2004

SOAKING BEANS Special Tip:

Overnight method: Add 1 3/4 qt cold water to every 1 lb of dry beans. Cover and refrigerate overnight. Discard the water. Proceed with recipe. Quick-soak method: Boil 1 34 qt of water for each 1 lb of dry beans. Add beans and boil for 2 minutes. Remove from heat and allow to soak for 1 hour. Discard the water. Proceed with recipe.

100 servings: In step 1, use 17 lb 4 oz raw ground beef. Continue with steps 2 and 3. In step 4, omit pinto or kidney beans. Continue with steps 5 -7.

 $50~\rm servings:$ In step 1, use 8 lb 10 oz raw ground beef. Continue with steps 2 and 3. In step 4, omit pinto or kidney beans. Continue with steps 5 - 7.

A. Chili con Carne without Beans

Variation:

COOKING BEANS

Once the beans have been soaked, add ½ tsp salt for every lb of dry beans. Boil gently with lid tilted until tender, about 2 hours.

CCP: Hold for hot service at 135° F. OR Use hot beans immediately.

Or, chill for later use. CCP: Cool to 70° F within 2 hours and to 41° F or lower within an additional 4

1 lb dry pinto beans = about 2% cups dry or 5% cups cooked beans.

D-20

Main Dishes



Chili con Carne with Beans

Meat/Meat Alternate-Vegetable

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cups dry or 6 1/4
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beans
kidney
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utrients Per Serving	_					
Calories	180	Saturated Fat	3.57 g Iron	Iron	2.71 mg	
Protein	15.44 g	L5.44 g Cholesterol	42 mg	Calcium	46 mg	
Carbohydrate	10.68 g	.0.68 g Vitamin A	813 IU	Sodium	204 mg	
Fotal Fat	8.58 g	8.58 g Vitamin C	14.5 mg	14.5 mg Dietary Fiber	2.5 g	





Quality Score Card for Meat, Poultry, and Fish

Date:	Name of Menu It	em:			
Proudly Prepared by:					
Quality Scored by:					
meets the standard and NO	when it does not. M	1ark N /A	Not A	pplicable	to evaluate the quality. Mark YES when the food e) when a specific quality standard does not apply y a food does not meet a standard.
Remember, if a food does not me	et the quality standards,	it should	not be pla	iced on the	e serving line.
QUALITY STANDARD		YES	NO	N/A	COMMENTS
APPEARANCE					
Product appears moist.		O	0	0	
Product has been trimmed o visible fat.	of any excess	О	О	0	
Product has been drained ar fat is visible.	nd no cooking	О	О	0	
Color is a rich brown, chara the meat, poultry, or fish		О	О	0	
Browning is even and correct product (not too brown)	et for the	О	О	0	
Portions are uniform in size	•	О	О	О	
TEXTURE OR CONSIST	TENCY				
Product is tender and easily	chewed.	O	0	0	
Product can be pierced with minimum pressure.	a fork with	О	О	0	
Product is firm and moist.		О	О	О	
FLAVOR AND SEASONI	NG				
Product is juicy.		O	0	0	
Flavor is fresh and appropria (no refrigerator taste or f		О	О	0	
Seasonings enhance but do taste (no greasy taste, or	not overpower the too much salt).	О	О	0	
SERVICE TEMPERATUR	E				
Meat products served hot - 150 °F–180 °F or above		0	О	0	
Poultry products served hot 165 °F–180 °F or above	-	0	0	0	
Meat or poultry products se 40 °F or below	rved cold –	О	0	0	





Culinary Practice Score Card for Meats, Poultry, and Fish

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Meats, Poultry, and Fish.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous page each technique.	s for a descript	ion of
Name of the Recipe:		
Date for Production:		
<i>Directions:</i> The manager and school nutrition assistant(s) will select a recipe for meat, po includes one of the culinary techniques described in this lesson. Check YES or NO when (This practice activity may be completed individually or with a partner. The manager will the end of the lesson.)	each step is con	mpleted.
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	\circ
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	O
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	\circ
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	О	\circ
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	0
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager sho submit it to the central office to document the completion of the lesson.	ould keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Sandwiches

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method.

Just-In-Time Preparation

Preparing a menu item in small enough amounts that it will be at its peak of quality when placed on the service line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The chemical substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.



Mise en Place

Getting Ready

Types of Bread

Loaf bread or Pullman is the most commonly used bread for sandwiches. The long, rectangular loaves provide slices from 3/8 inch to 5/8 inch thick. A fine textured, firm bread works well. Various types of loaf bread:

- White bread
- Whole wheat bread
- Rye
- Pumpernickel

Quick breads can be used for a sweeter tasting sandwich. Cream cheese and fruit are good fillings for sandwiches made from the following types of quick breads:

- Banana bread
- Zucchini bread
- Carrot bread

Wraps are very thin, flat breads that are used for sandwich wraps, burritos, and tacos. Varieties include:

- Corn tortilla
- Flour tortilla
- Sandwich wraps
 - Spinach
 - Sun-dried tomato
 - Whole wheat

Flat Breads are made from flattened, often unleavened breads and come from around the globe. Common flatbreads that are often used for sandwiches include:

- Pita bread
- Lavash
- Focaccia
- Chapati or Indian flatbread

Buns and **rolls** are excellent choices for sandwiches. A variety of types of buns can be used for sandwiches and include:

- Hamburger
- Hot dog
- English muffin



Vegetable Wraps

Meat/I	Meat/Meat Alternate-Vegetable-Grains/Breads	ains/Breads				Sandwiches	F-09
						-	
	Ingredients	20	50 Servings	100	100 Servings	Directions	
		Weight	Measure	Weight	Measure		
	Enriched flour tortilla, 12" soft (at least 1.8 oz)		50 each		100 each	Steam tortillas for 3 minutes until warm. OR Place in warmer to prevent torn tortillas when folding.	
	Ranch dressing (E-19)	50 oz	1 qt 2 ¼ cups	100 oz	3 qt ½ cup	2. For ranch dressing use Ranch Dressing recipe (see E-19) Spread 2 Tosp ranch dressing down the center of each tortilla.	
	*Leaf lettuce	13 oz	1 qt 2 % cups	1 lb 10 oz	3 qt 1 ½ cups	 Place about ¼ oz lettuce on top of ranch dressing. 	
	†Raw mixed vegetables * Raw green peppers, choned	1 lb 10 oz	1 qt ¾ cup	3 lb 4 oz	2 qt 1 ½ cups	Combine raw vegetables: green peppers, onions, carrots, and cucumbers. Portion 2 oz vegetable mix with a No. 10 scoop	
	* Raw onions, chopped * Raw carrots, peeled	1 lb 13 oz 1 lb 5 oz	1 qt 1 cup 1 qt 1 cup	3 lb 10 oz 2 lb 10 oz	2 qt 2 cups 2 qt 2 cups	(% cup) on top of lettuce leaf and dressing.	
	* Raw cucumbers, peeled and diced	1 lb 9 oz	1 qt 1 cup	3 lb 2 oz	2 qt 2 cups		
	Reduced fat Cheddar cheese, shredded	3 lb 2 oz	3 qt ½ cup	6 lb 4 oz	1 gal 2 ¼ qt	 Sprinkle 1 oz (¼ cup) cheese on top of vegetables. 	

Comments: *See Marketing Guide.

Marketing Guide for Selected Items	elected Items	
Food as Purchased for	50 servings	100 servings
Leaf lettuce	1 lb 4 oz	2 lb 8 oz
Green peppers	2 lb 1 oz	4 lb 2 oz
Mature onions	2 lb 1 oz	4 lb 2 oz
Carrots	1 lb 10 oz	3 lb 4 oz
Cucumbers	1 lb 14 oz	3 lb 12 oz

Fold the top and bottom of the tortilla into the center. Beginning at either side, roll the tortilla until all the contents cannot be seen.

Cut diagonally in half.



Vegetable Wraps

F-09		(6 (6
		1 gallon % quarts (vegetable filling) 100 halves
Sandwiches	VOLUME:	50 Servings:
	(TELD:	50 Servings: about 19 lb
Meat/Meat Alternate-Vegetable-Grains/Breads	SERVING:	2 pieces provide 1 oz equivalent meat/meat alternate, % cup of vegetable, and 2 servings of grains/breads.

Tested 2004

2 gallons 1 ¾ quarts (vegetable filling) 200 halves

100 Servings:

100 Servings: about 38 lb

Nutrients Per Serving					
Calories	599	Saturated Fat	4.72 g Iron	Iron	2.04 mg
Protein	13.80 g	13.80 g Cholesterol	21 mg	Calcium	336 mg
Carbohydrate	36.52 g	36.52 g Vitamin A	3707 IU	Sodium	636 mg
Total Fat	10.80 g	.0.80 g Vitamin C	16.5 mg	16.5 mg Dietary Fiber	2.9 g



Quality Score Card for Sandwiches

Date:	Name of Menu Item:
Proudly Prepared by:	
Quality Scored by:	
Directions: When the foo	d is ready to serve, use this Quality Score Card to evaluate the quality Mark VFS when the food

Directions: When the food is ready to serve, use this Quality Score Card to evaluate the quality. Mark **YES** when the food meets the standard and **NO** when it does not. Mark **N/A** (Not Applicable) when a specific quality standard does not apply to the food being evaluated. Use the **COMMENTS** section to explain why a food does not meet a standard.

Remember, if a food does not meet the quality standards, it should not be placed on the serving line.

QUALITY STANDARD	YES	NO	N/A	COMMENTS
APPEARANCE				
The proportion of sandwich filling to bread is balanced.	О	О	0	
Vegetable accompaniments are attractive and not wilted.	0	0	0	
If sandwich is toasted, the color of the bread is even and golden.	О	O	О	
TEXTURE OR CONSISTENCY				
Sandwich bread is fresh.	O	O	0	
Crumb is moist but not doughy.	О	0	0	
Vegetables, if used, are crisp.	О	0	0	
FLAVOR AND SEASONING				
Flavors of the filling, spread, and accompaniments complement each other.	0	0	0	
Bread is free from foreign flavors such as rancid fat or sour taste.	O	O	0	
SERVICE TEMPERATURE				
Cold sandwiches: 34 °F–38 °F	0	0	0	
Hot sandwiches: 160 °F–180 °F	О	О	О	





Culinary Practice Score Card for Sandwiches

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Sandwiches.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous page each technique.	es for a descripti	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for sandwich the culinary techniques described in this lesson. Check YES or NO when each step is con activity may be completed individually or with a partner. The manager will make this assist the lesson.)	mpleted. (This p	ractice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	\circ
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	O
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	\circ
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	0	\circ
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	0	\circ
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager sho submit it to the central office to document the completion of the lesson.	ould keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Dry Beans and Peas

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step preparation method. The culinary techniques discussed in cooking dry beans and pea dishes.

Ethnic

A descriptive term relating to large groups of people classed according to common customs. Ethnic foods and recipes are those that are unique to a particular culture, such as Mexican, Italian, or Native American.

Just-In-Time Preparation

Preparing a menu item in small enough quantities so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Legume (leg-umes)

Seeds that grow in pods, including beans, peas, and lentils. When they are used fresh, they are treated as a vegetable.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.





Favorite Beans

Adzuki Beans	Small, oval, burgundy red with white stripes. Light, sweet, nutty flavor with firm texture. Used primarily for bean paste in Asia.
Baby or Small Lima Beans	Flat-shaped, creamy white-colored beans. Smooth, fruity, sweet flavor. Less mealy texture. Popular as a vegetable side dish or added to soups and casseroles.
Black Beans	Medium black-skinned ovals. Earthy, sweet flavor with a meaty texture. Often used in thick soups or with rice. The black bean is a basic ingredient of many Mexican, Caribbean, and Latin American soups and side dishes.
Black-eyed Peas	Medium size, oval shaped, with black dot on creamy skin. Distinct savory flavor and light smooth texture. Can be cooked without pre-soaking because they have thin skins. Popular in Southern cuisine and sometimes used with rice dishes such as Hoppin' John.
Cranberry Beans	Medium ovals with a creamy background and burgundy highlights. Full, rich flavor with meaty texture. Most often used in Italian bean dishes and soups.
Dark Red Kidney Beans	Large, kidney-shaped bean with a deep reddish-brown color. Robust full-bodied flavor and soft texture. Often used in chili and in salads and with rice.
Garbanzo Beans	Medium size, round bean, beige color. Nut-like flavor and firm texture. Also called chickpea. Most often used in soups, salads, and main ingredient in popular Middle Eastern dishes hummus and falafel.
Great Northern Beans	Medium size, white color, and oval shape. Mild flavor and powdery texture. Most often used in soups, stews, and cassoulet.
Large Lima Beans	Flat-shaped, creamy, white-colored beans. Smooth flavor and sweet taste. Popular as a vegetable side dish or added to soups and casseroles.
Light Red Kidney Beans	Large, kidney-shaped bean. Robust, full-bodied flavor, and soft texture. Most often used in chili, and are popular in salads and with rice.
Navy Beans	Small white ovals. Mild, delicate flavor and refined texture. Used in pork and beans, or baked beans, also used in soups and stews, and are great pureed.
Pinto Beans	Medium ovals, mottled beige, and brown color. Earthy flavor and powdery texture. Often used in refried beans, and are great for Tex-Mex and Mexican bean dishes.





Hummus

Meat/	Meat/Meat Alternate					Salads and Salad Dressings	E-24
		20	50 Servings	100	100 Servings		
	Ingredients	Weight	Measure	Weight	Measure	Directions	i
	Canned garbanzo beans or chickpeas, drained	8 lb 8 oz	5 qt 1 cup (2 No. 10 cans)	17 lb	2 gal 2 ½ qt (4 No. 10 cans)	Combine all ingredients in a food processor and puree to a smooth consistency.	
	Frozen lemon juice concentrate, reconstituted		3 1/4 cups		1 qt 2 ½ cups		
	Peanut butter OR	1 ½ lb OR	2 ½ cups OR	3 lb OR	1 qt 1 cup OR		
	Tahini	1% 8 8 8 8	2 ½ cups	8 일 임 임 임	1 qt 1 cup OR		
	Sunflower seed butter	1½lb	2 ½ cups	3 lb	1 qt 1 cup		
	*Garlic cloves, peeled	5 oz	1 cup 1 Tbsp	10 oz	2 cups 2 Tbsp		
	Water		3 1/2 cup		1 qt 2 ½ cups		
	Ground black or white pepper		1 Tbsp		2 Tbsp		
						2. Spread 5 lb ½ oz (approximately 3 qt 1 cup) into each shallow pan (12" x 20" x 2 ½") to a product depth of 2" or less. For 50 servings, use 2 pans. For 100 servings, use 4 pans.	
						3. CCP: Chill to 41° F or lower within 4 hours.	
						Cover. Refrigerate until service.	
						4. Portion with No. 8 scoop (1/2 cup).	
	Comments: *See Marketina Guide.			Marketing	Marketing Guide for Selected Items	ected Items	
				1 0 0 0 0 L	وامعوموا ومت		

Marketing Guide for S	Selected Items	
Food as Purchased for	50 Servings	100 Servings
Garlic	17 cloves	34 cloves

	about 1 gallon 2 ¼ quarts 2 pans
VOLUME:	50 Servings:
	about 13 lb 9 oz
YIELD:	50 Servings:
SERVING:	% cup (No. 8 scoop) provides 2 oz equivalent meat/meat alternate.

100 Servings: about 27 lb 2 oz **100 Servings:** about 3 gallons 2 cups 4 pans

Tested 2006



E-24

Salads and Salad Dressings

Hummus

Meat/Meat Alternate

Special Tip: Serve with pita bread; warning for service - contains peanut butter.

Nutrients Per Serving		
Calories 182	Saturated Fat	1.44 g Iron 1.38 mg
Protein 7.49 g	Cholesterol	0 mg Calcium 37 mg
Carbohydrate 22.37 g	22.37 g Vitamin A 21 I	21 IU Sodium 301 mg
Total Fat 7.90 g	7.90 g Vitamin C 7.7 m	7.7 mg Dietary Fiber 4.4 g



Quality Score Card for Dry Beans and Peas

Date:	Name of Menu It	em:			
Proudly Prepared by:					
Quality Scored by:					
meets the standard and NO	when it does not. M Use the COMMEN	lark N /A	Not A ion to ex	pplicable plain wh	to evaluate the quality. Mark YES when the food e) when a specific quality standard does not apply y a food does not meet a standard. The serving line.
QUALITY STANDARD		YES	NO	N/A	COMMENTS
APPEARANCE					
Product appears moist, but n	ot watery.	О	0	0	
Beans or peas retain their sha	ıpe.	0	0	0	
No oil or fat is visible.		О	0	О	
TEXTURE OR CONSIST	ENCY				
Product has a soft texture.		0	0	0	
Product is moist, not dry.		0	0	0	
Product gives little resistance	to bite.	0	0	О	
FLAVOR AND SEASONII	NG				
Flavor is distinctive for the sp beans or peas.	pecific	0	0	О	
Product is free from a scorch or burned taste.	ed	О	О	О	
Seasonings are well blended.		0	О	О	
SERVICE TEMPERATUR	E				
		1	1	1	

160 °F–180 °F





Culinary Practice Score Card for Dry Beans and Peas

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Dry Beans and Peas.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous page each technique.	ges for a descript	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for dry bear one of the culinary techniques described in this lesson. Check YES or NO when each st practice activity may be completed individually or with a partner. The manager will malend of the lesson.)	ep is completed.	(This
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	O
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	0
Did you assemble all of the ingredients needed?	О	O
Use the right culinary technique.		
Did you use the culinary technique correctly?	О	0
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	0
Did you review the product with the manager?	О	O
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager sl submit it to the central office to document the completion of the lesson.	nould keep this c	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Pasta, Rice, and Grains

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Al Dente (al-din-tay)

An Italian term that means "to the tooth". It is used to describe pasta cooked to a firm texture.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step preparation method. The culinary techniques discussed in this lesson include boiling pasta, cooking rice, and simmering grains.

Just-In-Time Preparation

Preparing a menu item in small enough quantities so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.

Simmer

To cook a food in a liquid just below the boiling point.



Mise en Place

Getting Ready

Common whole grains:

- Any grain with "whole" listed before the grain (whole-grain corn or whole cornmeal, whole bulgur, whole oat flour, whole rye flour, whole wheat flour, white whole wheat flour, whole durum flour, whole-grain barley, whole rye)
- Various grains with "groats" listed after the grain (oat groats, buckwheat groats)
- Various grains with "berries" listed after the grain (wheat berries, rye berries)
- · Cracked wheat
- Crushed wheat
- Graham flour
- Oatmeal or rolled oats (regular, quick, or instant)
- Brown rice (regular or quick), brown rice flour, wild rice
- Popcorn (is not creditable in food-based menu planning.)

Some less commonly used whole grains:

- Whole amaranth
- Whole buckwheat
- Whole millet
- Whole quinoa
- Whole sorghum
- Whole spelt
- Whole teff
- Whole triticale



Cooking Chart for Various Pasta Shapes

Pasta Name	Shape of Pasta	Approximate Cooking Time for al dente
Lasagna		15 Minutes
Bow ties		11 minutes
Wagon wheels		11 minutes
Linguine		10 minutes
Rigatoni		10 minutes
Spaghetti		10 minutes
Ziti		10 minutes
Fettuccine		8 minutes
Rotini	The Market	8 minutes
Elbow macaroni		6 minutes
Noodles		6 minutes

Source: Adapted from Molt, M. (2006), *Food For Fifty* (p. 561). Pearson, Prentice-Hall: Upper Saddle River, NJ.





Basic Principles of Preparing Grains

There are many other kinds of grain dishes that can be included on school menus. Grain dish examples are bulgur or cracked wheat, buckwheat or kasha, and oatmeal. Of course, corn, cornmeal, and grits are also from the grain group. Grain dishes may be served at any meal and are often important ingredients in soups, main dishes, side dishes, and even desserts. When any grain is cooked, three things should happen:

- 1. The plant fiber becomes soft so it can be eaten.
- 2. The grain product keeps its shape and doesn't become a paste.
- 3. The starch in the grain product is changed so it can be digested.

Follow the directions in the recipe to cook the grain product the right way.

Grain products (or cereals) can be cooked in a steam-jacketed kettle or a steamer. They can even be prepared in a heavy kettle on the range. Simmering is the most popular culinary technique for cooking grains.

A grain product should not be stirred too much and should not be overcooked. Either action means that the product will be sticky and gummy. Recipes for grain products include the amount of liquid to be used and the cooking time. Following the recipe exactly means the product will be done and will meet quality standards.

In general, grain products are done when almost all the liquid has been absorbed. Some recipes suggest that the grain product be removed from the heat when almost all the liquid has been absorbed, and then left to stand covered for 5–10 minutes. Standing allows time for the remaining liquid to be absorbed.

Like rice, the liquid used to cook other grains can be chicken, beef, or vegetable stock flavored with herbs or spices or vegetables. Use a recipe and follow it exactly. The most common culinary technique used to cook grains is simmering.





Cooking Chart for Varieties of Rice

Variety	Description	Approximate Cooking Time (Actual cooking times vary with the culinary technique used.)
Brown Rice	Least processed form of rice; contains bran and inner germ layer; available as short, medium, long grain varieties, or parboiled; may be enriched	50-60 minutes
White Rice, long-grain	Polished grains, usually enriched; cooks up firm and fluffy	25-30 minutes
White Rice, medium-grain	Polished grains, usually enriched; cooks up tender and moist with grains tending to stick together	25-30 minutes
White Rice, Short-grain	Polished grains, usually enriched; cooks up very tender and sticky; good for sushi and rice pudding; high starch content	25-30 minutes
Converted Rice	Parboiled to remove the surface starch, polished grains; may be enriched; cooks more slowly than regular milled white rice; holds well after cooking	30-40 minutes
Italian Short-Grain Rice	Short grains, polished; an example is Arborio which is very sticky, with a white color and mild flavor; used for risotto	15-20 minutes
Wild Rice	Long, dark-brown seed that is prepared in the same way as rice; has a nuttier flavor and chewier texture than traditional rice; should be rinsed	35-60 minutes





Various Grains Chart

Grain	Description	Forms
Barley	Sweet, earthy flavor Chewy-to-soft texture Used in soups, sides	Pot or scotch: unpolished kernels Pearl: polished kernels
Corn	Grain food that is eaten as both vegetable and grain	Hominy: hulled and degerminated kernels Grits: ground hominy Meal: medium-fine ground hulled kernels Masa: processed with lime to remove hull Masa harina: ground dried masa Cornstarch: very finely ground hulled, degerminated kernels
Millet	Usually cooked like rice May be added to bread for a crunchy texture	Whole: cooked like rice Flour: used in flat breads
Oats	Used as a hot cereal or in baked products	Rolled or old-fashioned oats: whole oat kernels with only husks removed Quick-cooking oats: rolled oats cut into smaller pieces for quicker cooking Instant oats: partially cooked and dried before rolling
Quinoa	Seed of a plant but not botanically a grain	Whole seeds
Rye	Used primarily as a flour for making bread	Rye berries Cracked rye: Rye flour
Wheat	Widely used in many products	Whole: whole kernel without the bran removed Cracked: whole kernel without the bran removed and coarsely crushed Bulgur: whole wheat kernel that has bran removed Semolina: polished wheat kernel with the bran and germ removed Couscous: semolina pellets, often parcooked Farina: polished, medium-grind wheat cereal Bran: separated outer covering of wheat kernel; flakes Germ: separated embryo of wheat kernels





Pasta Salad

E-08 Slowly add pasta spirals or shells while stirring constantly until water boils again. Cook for 8-10 minutes. DO NOT OVERCOOK. Drain well. Rinse under cold water. Add mixed vegetables, broccoli, and pepper. Shake dressing. Pour over pasta and vegetables. Toss lightly to combine and coat evenly. Spread 5 lb 1 oz (approximately 2 qt 1 1/3 cups) into each shallow pan (12" x 20" x 2 1/3") to a product depth of 2" or less. For 50 servings, use 2 pans. For 4. CCP: Cool to 41° F or lower within 4 hours. Cover. Refrigerate until ready to serve. Portion with No. 10 scoop (% cup). 1. Heat water to rolling boil. Add salt. Salads and Salad Dressings 100 servings, use 4 pans. Mix lightly before serving. က OR 2 qt 3 ½ cups (1 ½ No. 10 cans) 1 gal 2 ½ cups OR 1 gal 1 % qt 2 qt 3 cups 1 qt 3 cups 2 gal 3 qt ½ cup 2 tsp 1 q 100 Servings 3 lb 6 oz OR 3 lb 14 oz 2 lb 14 oz OR 5 lb 2 oz 4 lb 8 oz OR 1 qt 1 % cups (% No. 10 can) 2 qt 1 ½ cups OR 2 qt 3 % cups 1 qt 1 ½ cups 1 gal 1 ½ qt 3 ½ cups 2 cups 1 tsp 1 lb 11 oz OR 1 lb 15 oz OR 2 lb 9 oz 2 lb 4 oz 1 lb 7 oz Enriched pasta shells, medium Ground black or white pepper Italian Dressing (see E-15) Canned mixed vegetables, chilled, drained Frozen mixed vegetables, Frozen chopped broccoli, Enriched pasta spirals Vegetable-Grains/Breads thawed and drained thawed and drained Water Salt

SERVING:	YIELD:		VOLUME:	
% cup (No. 10 scoop) provides % cup of vegetable and ½ serving of grains/breads.	50 Servings:	50 Servings: about 10 lb 2 oz	50 Servings: ab	about 1 gallon 2 ¾ cu 2 pans

sdn

100 Servings: about 20 lb 4 oz

100 Servings: about 2 gallons 1 ½ quarts 4 pans

Edited 2006



Salads and Salad Dressings

Pasta Salad

Sreads
-rains/F
netable-(
\ P

	ı	ı		ı	
Nutrients Per Serving					
Calories	141	Saturated Fat	0.98 g	Iron	0.98 mg
Protein	3.27 g	Cholesterol	0 mg	Calcium	17 mg
Carbohydrate 10	16.83 g	16.83 g Vitamin A	1309 IU	Sodium	165 mg
Total Fat	7.00 g	7.00 g Vitamin C	10.0 mg	Dietary Fiber	2.03 g



Cooking Rice (Oven or Steamer)

Ingredients	Grains/Breads					Grains/Breads	B-03
1.	Increasionte	09	Servings	100	Servings	Disactions	
rice, medium 3 lb 12 oz 2 qt ½ cup 7 lb 8 oz 1 gal 1 cup 2. rice, long 3 lb 6 oz 2 qt 1 ½ cups OR OR	STEPPER	Weight	Measure	Weight	Measure		
rice, medium 3 lb 12 oz 2 qt ½ cup 7 lb 8 oz 1 gal 1 cup 2. rice, long 3 lb 6 oz 2 qt 1½ cups OR OR OR OR rice, long 3 lb 10 oz 2 qt 1½ cups 7 lb 4 oz 1 gal 2 ½ cups 3. 3 qt 3 qt 1 gal 2 ½ cups 4. 2 tsp 1 Tbsp 1 tsp 4. 6. 6.						1. Do not rinse enriched rice.	
OR OR OR OR OR OR 1 gal OR OR OR OR OR OR 1 gal OR OR OR OR 1 gal OR OR OR 2 gqt 1 ½ cups OR OR OR 1 gal 2 ½ cups A. 1 ce, long 3 lb 10 oz 2 qt 1 ½ cups 7 lb 4 oz 1 gal 2 ½ cups 3. 2 tsp 2 tsp 1 Tbsp 1 tsp 4. 5 cm 6 cm 6 cm	Enriched white rice, medium	3 lb 12 oz	2 qt ½ cup	7 lb 8 oz	1 gal 1 cup	2. Place 1 lb 14 oz medium grain, or 1 lb 11 oz	
OR OR OR 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	grain, regular OR Enriched white rice, long	OR 3 lb 6 oz	OR 2 qt	OR 6 lb 12 oz	OR 1 gal	long grant, or 1 is 13 oz, par bolled fice in each steamtable pan $(12" \times 20" \times 2 \%)$. For 50 servings, use 2 pans. For 100 servings, use	
2 tsp 1 Tbsp 1 tsp 1 tsp	grain, regular OR Enriched white rice, long	OR 3 lb 10 oz	OR 2 qt 1 ¼ cups	OR 7 lb 4 oz	OR 1 gal 2 ½ cups	4 pans.	
3 qt 1 gal 2 qt 2 tsp 2 tsp 1 Tbsp 1 tsp	grain, parboiled						
2 tsp 1 Tbsp 1 tsp	Water, boiling		3 qt		1 gal 2 qt	 Add salt to boiling water. Pour water over rice. qt 2 cups per steamtable pan). 	
4. Cover pans tightly, 5. Bake: Conventional oven: 350° F for 30 minutes Convection oven: 325° F for 30 minutes Steamer: 5 lb pressure for 25 minutes 6. Remove from oven or steamer. 7. CCP: Hold for hot service at 135° F or higher. OR CCP: Cool to 70° F within 2 hours and from 70° F to 41° F or lower within an additional 4 hours. Portion with No. 8 scoop (½ cup).	Salt		2 tsp		1 Tbsp 1 tsp		
5. Bake: Conventional oven: 350° F for 30 minutes Convection oven: 325° F for 30 minutes Steamer: 5 lb pressure for 25 minutes 6. Remove from oven or steamer. 7. CCP: Hold for hot service at 135° F or higher. OR CCP: Cool to 70° F within 2 hours and from 70° F to 41° F or lower within an additional 4 hours. Portion with No. 8 scoop (½ cup).						4. Cover pans tightly.	
6. Remove from oven or steamer. 7. CCP: Hold for hot service at 135° F or higher. OR CCP: Cool to 70° F within 2 hours and from 70° F to 41° F or lower within an additional 4 hours. Portion with No. 8 scoop (½ cup).						5. Bake: Conventional oven: 350° F for 30 minutes Convection oven: 325° F for 30 minutes Steamer: 5 lb pressure for 25 minutes	
7. CCP: Hold for hot service at 135° F or higher. OR CCP: Cool to 70° F within 2 hours and from 70° F to 41° F or lower within an additional 4 hours. Portion with No. 8 scoop (½ cup).						6. Remove from oven or steamer.	
CCP: Cool to 70° F within 2 hours and from 70° F to 41° F or lower within an additional 4 hours. Portion with No. 8 scoop (½ cup).						7. CCP: Hold for hot service at 135° F or higher. OR	
Portion with No. 8 scoop (½ cup).						CCP: Cool to 70° F within 2 hours and from 70° F to 41° F or lower within an additional 4 hours.	
						Portion with No. 8 scoop (1/2 cup).	

SERVING:	YIELD:	VOLUME:	
% cup (No. 8 scoop) provides 1 serving of grains/breads.	50 Servings: 2 steamtable pans	50 Servings: about 1 gallons 2 1/4 quarts	

100 Servings: 4 steamtable pans **100 Servings:** about 3 gallons 2 cups

Tested 2004, Tested 2007



B-03

Cooking Rice (Oven or Steamer)

ārains/Breads	
9	
	ng grain, regular
Grains/Breads	Special Tip: Cooking Brown Rice, long

For 50 Servings, use 3 lb 2 oz brown rice and 1 gal 3 1 2 cups boiling water and 2 tsp salt. Place 1 lb 9 oz of rice and 2 qt 1 3 4 cups of water in each steamtable pan (12" x 20" x 2 1 2"). Use 2 pans. Cover and bake at 350° F or steam at 5 lb pressure for 50 minutes.

For 100 servings, use 6 lb 4 oz brown rice and 2 gal 1 34 qt boiling water and 1 Tbsp 1 tsp salt. Place 1 lb 9 oz of rice and 2 qt 1 34 cups of water in each steamtable pan (12" x 20" x 2 12 "). Use 4 pans. Cover and bake at 350° F or steam at 5 lb pressure for 50 minutes.



Quality Score Card for Pasta, Rice, and Grains

Name of Menu Item:

Proudly Prepared by:				
Quality Scored by:				
•	ark N/A	(Not A _l	pplicable	to evaluate the quality. Mark YES when the food) when a specific quality standard does not apply y a food does not meet a standard.
Remember, if a food does not meet the quality standards,	it should	not be pla	ced on the	e serving line.
QUALITY STANDARD	YES	NO	N/A	COMMENTS
APPEARANCE				
Pasta strands or pieces are distinct.	0	0	0	
Rice grains are intact (still whole).	0	0	0	
Grains/cereals have distinct particles, grains, or flakes.	0	0	О	
Product is moist but not watery.	О	О	О	
No oil or fat is visible.	O	О	О	
TEXTURE OR CONSISTENCY				
Pasta pieces are tender (al dente) but not gummy.	0	0	0	
Rice/grains are firm, but tender, fluffy.	О	О	О	
Cereal is thick but not gummy.	О	О	О	
Product does not have lumps.	0	0	О	
FLAVOR AND SEASONING				
Flavor is bland, but does not taste starchy.	0	0	0	
Flavor is typical of the grain.	0	О	О	
Product is free from a scorched or burned taste.	0	О	О	
A mixed dish is well seasoned but not to excess.	0	О	О	
SERVICE TEMPERATURE				
Hot pasta, rice, and grain dishes – 160 °F–180 °F	0	0	0	
Cold pasta, rice, or grain salads – 34 °F–38 °F	О	О	0	





Culinary Practice Score Card for Pasta, Rice, and Grains

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Pasta, Rice, and Grains.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous page each technique.	s for a descript	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for pasta, ricone of the culinary techniques described in this lesson. Check YES or NO when each step practice activity may be completed individually or with a partner. The manager will make end of the lesson.)	o is completed.	(This
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	0	0
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	О	0
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	0
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager sho submit it to the central office to document the completion of the lesson.	ould keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Soups

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Broth

A flavorful, aromatic liquid made by simmering water or stock with meat, vegetables, and/or spices and herbs.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method.

Just-In-Time Preparation

Preparing a menu item in small enough amounts so that it will be at its peak of quality when placed on the service line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The chemical substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.

Simmer

To cook a food in a liquid just below the boiling point.

Stock

A flavorful liquid prepared by simmering meat, poultry, fish, and/or vegetables in water until the flavor is extracted.





Mis en Place

How to Make a Stock

There are some important things to do when making a stock. The ideal time to make a stock is when whole turkeys or other whole meats are on the menu. The meat is removed and the bones cooked with vegetables and seasonings to make a stock.

White Stock

Chicken or Turkey Stock (1 Gallon)

Approximately 8 pounds of bones (turkey or chicken)
8 ounces onions, chopped
4 ounces celery, chopped

4 ounces carrots, chopped Cover with 6 quarts of cold water. Do not add salt to the stock.

Bring the raw bones and liquid to a boil and reduce the heat so the liquid is at simmer (do not boil). After about 1 hour, add the vegetables and cook until the liquid is reduced by one-third. This will take about 3 hours. Skim the stock as needed during the cooking time.

After the stock is ready, it should be strained to separate all the solids, the bones, and vegetables from the liquid.

Remove the stock from the heat. Using a ladle, carefully ladle the stock from the pot and strain it through a very fine strainer. The strainer should be fine enough that no solids are strained through and the liquid is clear. Use the best tool available for straining stock. Some tools that can be used include a fine mesh-type strainer, a small hand-held colander, a china cap, cheesecloth, or a large coffee filter in a colander.

After the stock has been strained, cool it quickly in shallow pans in the refrigerator or place in an ice water bath. Stir the stock periodically during the cooling process. When the stock is completely chilled (41 °F or less), remove any fat that is on the top.

Storing Stocks

Stock is a clear, flavored liquid that freezes well. Chilled stock can be frozen in 1 gallon amounts to be used for sauces. However, once a stock has been used to make a sauce, the sauce itself should not be frozen. Sauces do not freeze well and should be made in amounts needed the day of production.

Starting Stocks in Cold Water

By starting with cold water, the entire mixture heats at the same time. The impurities from the bones collect on top of the water and can easily be skimmed off. If hot water is added to the bones, the impurities will coagulate and stay in the water making the stock cloudy.



Mis en Place, continued

Simmer Stocks

Simmering is cooking just below the boiling point, approximately 185 °F. At this temperature, the bones release their flavor into the liquid. When a stock is boiled, the impurities and the fat mix in with the water and the stock becomes cloudy.

Skim the Stock

A good stock is clear, like a commercial stock base mixed with water to make a broth. Skimming frequently during cooking removes impurities and fat that rise to the top so the stock remains clear.

Flavored Commercial Stock Bases

Broths made from commercial chicken stock base, beef stock base, and vegetable stock base are all popular substitutes for school-made stock. Although they save labor costs, a commercial stock base never gives as good a flavor as a school-made stock.

Regular commercial stock bases are high in sodium, and for that reason their use should be limited in school kitchens. It is always important to choose ingredients that are consistent with the principles of the *Dietary Guidelines for Americans*. Substitute a low-sodium for a regular commercial stock base.

Using Commercial Stock Bases

- 1. Reduce the amount of regular commercial stock base and use only half to three quarters as much as recommended in the directions. Use the amount of water recommended. If low-sodium stock base is available, follow the directions and use it full-strength.
- 2. Make the sauce using water as the liquid. Then at the end add only enough stock base to get the flavor needed. Begin with half the amount recommended. Add the stock base and then taste test for flavor. Use the least amount of regular stock base needed for flavor.
- 3. Do not add additional salt or use flavorings such as onion salt or garlic salt.



Vegetable Soup

Vegetable					Soups	H-04
norodionts	20	50 Servings	100 8	100 Servings	Directions	
	Weight	Measure	Weight	Measure		i
Chicken or beef stock, non- MSG	ı	2 gal		4 gal	 Combine stock, tomatoes, celery, onions, pepper, parsley, and granulated garilc. Bring to boil. 	
Canned diced tomatoes, with juice	ith 6 lb 6 oz	3 qt ½ cup (1 No. 10 can)	12 lb 12 oz	1 gal 2 ¼ qt (2 No. 10 cans)		
*Fresh celery, chopped	10 oz	2 ½ cups	1 lb 4 oz	1 qt 1 cup		
*Fresh onions, chopped OR OPA Onions	1 lb 0 R 30.7	2 % cups OR 1 % cups	2 lb OR 6 07	1 qt 1 ½ cups OR 3 cups		
Ground black or white pepper		1 tsp		2 tsp		
Dried parsley		½ cup		% cup		
Granulated garlic		2 Tbsp		% cup		
					2. Reduce heat and cover. Simmer for 20 minutes.	
Canned liquid pack whole- kernel com, drained OR Frozen whole-kernel com	11b 2 ½ oz OR 11b 2 oz	2 % cups (% No. 10 can) OR 3 cups 2 Tbsp	2 lb 5 oz OR 2 lb 4 oz	1 qt 1 ½ cups (½ No. 10 can) OR 1 qt 2 ¼ cups	 Add com, carrots, green beans, and green peas. (Frozen vegetables may be combined with canned vegetables.) 	
Canned diced carrots, drained OR Frozen sliced carrots	ned 11b 2 oz OR 11b 6 oz	2 ½ cups (¼ No. 10 can) OR 1 qt ¾ cup	2 lb 4 oz OR 2 lb 12 oz	1 qt 1 cup (½ No. 10 can) OR 2 qt 1 ½ cups		
Canned cut green beans, drained OR Frozen cut green beans	15 oz OR 15 oz	3 ½ cups (¼ No. 10 can) OR 3 ½ cups	1 lb 14 oz OR 1 lb 14 oz	1 qt 3 cups (½ No. 10 can) OR 1 qt 3 cups		
Canned green peas, drained OR Frozen green peas	ed 11b 1 ½ oz OR 11b 4 oz	2 ½ cups (¼ No. 10 can) OR 1 qt	2 lb 3 oz OR 2 lb 8 oz	1 qt 1 cup (½ No. 10 can) OR 2 qt		
					 Cover and simmer for 15 minutes, or until vegetables are tender. 	
					CCP: Heat to 165° F or higher for at least 15 seconds.	
					 Pour 9 lb 1 ½ oz (1 gal ¾ cup) into medium steamtable pan (12" x 20" x 4"). For 50 servings, use 3 pans. For 100 servings, use 6 pans. 	



Vegetable Soup

	t 135° F or higher.	
sdnos	6. CCP: Hold for hot service at 135° F or higher.	Portion with 8 oz ladle (1 cup).
ble		

100 Servings 1 lb 8 oz 2 lb 6 oz Marketing Guide for Selected Items 50 Servings 1 lb 3 oz 12 oz **Food as Purchased for** Mature onions Celery Comments: *See Marketing Guide.

about 3 gallons 2 cups 50 Servings: about 27 lb 4 oz 50 Servings: 1 cup (8 oz ladle) provides ½ cup of vegetable.

100 Servings: about 54 lb 8 oz **100 Servings:** about 6 gallons 1 quart

Tested 2004

Nutrients Per Serving					
Calories	28	Saturated Fat	0.12 g	Iron	1.08 mg
Protein	3.24 g	3.24 g Cholesterol	1 mg	Calcium	29 mg
Carbohydrate 1	1.52 g	.1.52 g Vitamin A	1906 IU	Sodium	369 mg
Total Fat (0.63 g	0.63 g Vitamin C	13.3 mg	13.3 mg Dietary Fiber	1.8 g



Bean Soup

Meat/l	Meat/Meat Alternate-Vegetable					Sonbs	H-01
	stockord	20	50 Servings	100	100 Servings	Diractions	
		Weight	Measure	Weight	Measure		
	Chicken or ham stock, non- MSG		2 gal 1 qt		4 gal 2 qt	Combine stock, beans, tomato paste, onions, celery, carrots, pepper, parsley, and ham (optional). Bring to boil. (If desired, liquid from cooked beans may be used as part of the stock.)	
	*Cooked dry Navy beans (see Special Tip)	10 lb 2 oz	1 gal 2 ½ qt	20 lb 4 oz	3 gal 1 qt		
	Canned tomato paste	7 oz	% cup 1 Tbsp	14 oz	1 ½ cups 2 Tbsp		
	*Fresh onions, chopped OR OP	14 oz OR 2 % oz	2 ½ cups OR 1 ½ cups	1 lb 12 oz OR 5 oz	1 qt % cup OR 2 % cups		
	*Fresh celeny, chopped	6 ½ oz	1 ½ cups 2 Tbsp	13 oz	3 ½ cups		
	*Fresh carrots, chopped	6 ½ oz	1 % cups	13 oz	3 ½ cups		
	Ground black or white pepper		1 tsp		2 tsp		
	Dried parsley		% cup		½ cup		
	Cooked ham, diced (optional)	1 D	3 cups	2 lb	1 qt 2 cups	Reduce heat. Cover. Simmer for 20 minutes or until vegetables are tender.	
						CCP: Heat to 165° F or higher for at least 15 seconds.	
	Enriched all-purpose flour	4 ½ oz	1 cup 1 Tbsp	So 6	2 cups 2 Tbsp	3. Combine flour and water. Mix until smooth.	
	Water		1 cup		2 cups	Add to stock mixture. Stir well and cook over medium heat until thickened, 10-12 minutes.	
						5. Pour 8 lb 7 ½ oz (1 gal 35 cup) into a medium steamtable pan (12" x 20" x 4"). For 50 servings, use 3 pans. For 100 servings, use 6 pans.	
						CCP: Hold for hot service at 135° F or higher.	
						6. Portion with 8 oz ladle (1 cup).	

Comments: *See Marketing Guide.

	100 Servings	8 lb 8 oz	2 lb	
Suide for Selected Items	50 Servings	4 lb 4 oz	1 lb	
Marketing Guide fo	Food as Purchased for	Dry Navy beans	Mature onions	



Bean Soup

Meat/Meat Alternate-Vegetable		Soups		H-01
	Celery	8 oz	1 lb	
	Carrots	8 oz	1 lb	
SERVING:	YIELD:	VOLUME:	ı	i
1 cup (8 oz ladle) provides 2 oz equivalent meat/meat alternate and ½ cup of vegetable.	50 Servings: about 25 lb 6 oz	50 Servings:	50 Servings: about 3 gallons 2 cups	

100 Servings: about 50 lb 12 oz

100 Servings: about 6 gallons 1 quart

Edited 2004

Special Tip: SOAKING BEANS

Overnight method: Add 1 34 qt cold water to every 1 lb of dry beans. Cover and refrigerate overnight. Discard the water. Proceed with recipe. Quick-soak method: Boil 1 34 qt of water for each 1 lb of dry beans. Add beans and boil for 2 minutes. Remove from heat and allow to soak for 1 hour. Discard the water. Proceed with recipe.

COOKING BEANS

Once the beans have been soaked, add $\frac{1}{2}$ tsp salt for every lb of dry beans. Boil gently with lid tilted until tender, about 2 hours.

Use hot beans immediately. CCP: Hold for hot service at 135° F.

Chill for later use. If chilling: CCP: Cool to 70° F within 2 hours and to 41° F or lower within an additional 4

1 lb dry Navy beans = about 2 1/4 cups dry or 5 7/8 cups cooked beans.



Bean Soup

H-01
Soups
nate-Vegetable
Meat/Meat Altern

Nutrients Per Serving	ving				
Calories	159	Saturated Fat	0.22 g	Iron	2.66 mg
Protein	9.28 g	Cholesterol	1 mg	Calcium	79 mg
Carbohydrate	29.37 g	29.37 g Vitamin A	1073 IU	Sodium	329 mg
Total Fat	0.88 g	0.88 g Vitamin C	4.4 mg	4.4 mg Dietary Fiber	6.4 g





Quality Score Card for Soups

Name of Menu Item:

Proudly Prepared by:					
Quality Scored by:					
	lark N/A I TS secti	(Not A	pplicable plain wh		
QUALITY STANDARD	YES	NO	N/A	COMMENTS	
APPEARANCE					
Ingredients do not appear overcooked.	0	0	0		
There is no visible fat or scum.	0	0	0		
Color is consistent with the main ingredients.	0	0	0		
TEXTURE OR CONSISTENCY					
Thickness is appropriate for type of soup.	0	0	0		
Added ingredients are fork-tender.	0	0	0		
FLAVOR AND SEASONING					
Seasonings are balanced with no one additive predominant (salt is not an obvious taste).	0	0	0		
If a thickener is used, it has been thoroughly cooked so there is no starchy taste.	О	0	0		
If a thickener is used, it has been thoroughly cooked so there is no starchy taste.	0	0	0		

0

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0

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0

The ingredients of the soup compliment

SERVICE TEMPERATURE

each other.

160 °F-170 °F





Culinary Practice Score Card for Soups

Name(s):		
<i>Purpose:</i> The purpose of the activity is to practice Preparing Soups.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous page each technique.	s for a descript	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for soups the culinary techniques described in this lesson. Check YES or NO when each step is comple activity may be completed individually or with a partner. The manager will make this assist the lesson.)	ted. (This pract	tice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	\circ
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	О	\circ
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	0
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager sho submit it to the central office to document the completion of the lesson.	ould keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Dairy Products

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method. The culinary techniques discussed in this lesson include cooking cheese.

Just-In-Time Preparation

Preparing a menu item in small enough amounts so that it will be at its peak of quality when placed on the service line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.





Pizza with Cheese Topping

Meat/l	Meat/Meat Alternate-Vegetable-Grains/Bread	ains/Breads				Main Dishes	D-30
	Ingradients	20	50 Servings	100	100 Servings	Diractions	i
		Weight	Measure	Weight	Measure	61000000	
	Pizza dough in pans (18" x 26" x 1") OR (18" x 13" x 1")		2 ½ sheet pans		5 sheet pans	For pizza dough, use Pizza Crust recipe (see B-14) or Pourable Pizza Crust recipe (see B-15).	
	*Fresh onions, chopped OR Dehydrated onions	5 oz OR 1 oz	% cup 2 Tbsp OR % cup	10 oz OR 2 oz	1 % cups OR 1 cup	 Combine onions, granulated garlic, pepper, tomato paste, water, salt, basil, oregano, marjoram, and thyme. Simmer for 15 minutes. 	
	Granulated garlic		2 1/2 tsp		1 Tbsp 2 tsp		
	Ground black or white pepper		1 tsp		2 tsp		
	Canned tomato paste	1 lb 12 oz	3 cups 2 Tbsp (¼ No. 10 can)	3 lb 8 oz	1 qt 2 ½ cups (½ No. 10 can)		
	Water		1 qt 3 cups		3 qt 2 cups		
	Salt		2 tsp		1 Tbsp 1 tsp		
	Dried basil		2 tsp		1 Tbsp 1 tsp		
	Dried oregano		2 tsp		1 Tbsp 1 tsp		
	Dried marjoram		% tsp		1 tsp		
	Dried thyme		½ tsp		1 tsp		
	Lite mozzarella cheese, shredded	6 lb 4 oz	1 gal 2 ¼ qt	12 lb 8 oz	3 gal 2 cups	 Sprinkle 12 oz (3 cups) shredded cheese evenly over each sheet pan. Sprinkle 6 oz (1 ½ cups) shredded cheese evenly over each half-sheet pan. 	
						 Spread 1 qt ¼ cup tomato mixture over cheese in each sheet pan. Spread 2 cups 2 Tbsp tomato mixture over cheese in each half-sheet pan. 	
						5. Sprinkle 1 lb 12 oz (1 qt 3 cups) remaining shredded cheese evenly over tomato mixture in each sheet pan. Sprinkle 14 oz (3 ½ cups) shredded cheese evenly over tomato mixture in each half-sheet pan.	
						6. Bake until crust is lightly browned: Conventional oven: 475° F for 15-18 minutes Convection oven: 450° F for 15 minutes	
						7. CCP: Hold at 135° F or higher.	
						Cut each sheet pan 4 \times 5 (20 pieces per pan). Cut each half-sheet pan 2 \times 5	



Pizza with Cheese Topping

eat/Meat Alternate-Vegetable-Grains/Breads			Main Dishes		D-30
			(10 pieces per pan).	er pan).	
Comments: *See Marketing Guide.		Marketing Guide for Selected Items Food as Purchased for	Selected Items	S 100 Servings	U
					2
	Σ	Mature onions	ZO 9	12 oz	
SERVING:	YIELD:		VOLUME:		
1 piece provides 2 oz equivalent meat/meat alternate, ¼ cup of vegetable, and 2 servings of grains/breads.	50 Servings:	50 Servings: about 16 lb 4 oz	50 Servings:	2 ½ sheet pans	
	100 Servings:	100 Servings: about 32 lb 8 oz	100 Servings: 5 sheet pans	5 sheet pans	

Tested 2004

Nutrients Per Serving					
Calories	280	Saturated Fat	4.17 g Iron	Iron	2.17 mg
Protein	19.85 g	19.85 g Cholesterol	19 mg	Calcium	430 mg
Carbohydrate	31.42 g	31.42 g Vitamin A	624 IU	Sodium	497 mg
Total Fat	8.06 g	8.06 g Vitamin C	7.0 mg	7.0 mg Dietary Fiber	1.9 g



Cheese Sauce

Meat/№	Meat/Meat Alternate					Sauces, Gravies, and Seasoning Mixes G	G-08A
	Ingredients		1 Quart		1 Gallon	Directions	
		Weight	Measure	Weight	Measure		
	Margarine or butter		3 Tbsp 1 ½ tsp	Z 0 Z	% cup 2 Tbsp	 Melt margarine or butter. Add flour and salt. Stir until smooth. 	
	Enriched all-purpose flour	2 oz	½ cup	8 oz	1 ¾ cups		
	Salt		½ tsp		1 tsp		
	Instant nonfat dry milk, reconstituted, hot		3 ¼ cups		3 qt 1 cup	2. Add milk gradually, stirring constantly.	
	Cheese blend of American and skim milk cheeses, shredded	10 oz	2 ½ cups	2 ½ lb	2 qt 2 cups	 Add shredded American cheese. Cook for 12-15 minutes, stirring frequently, until smooth and thick. 	
						CCP: Hold for hot service at 135° F or higher.	

	about 1 quart
VOLUME:	1 Quart:
	32 2 Tbsp servings
YIELD:	1 Quart:
SERVING:	2 Tbsp (1 oz ladle) provides ¼ oz equivalent meat/meat alternate.

1 Gallon:

128 2 Tbsp servings

1 Gallon:

Tested 2004



Sauces, Gravies, and Seasoning Mixes

Cheese Sauce

Meat/Meat Alternate

Nutrients Per Serving					
Calories	49	Saturated Fat	1.21 g Iron	Iron	0.09 mg
Protein	3.30 g	3.30 g Cholesterol	5 mg	Calcium	95 mg
Carbohydrate	3.30 g	3.30 g Vitamin A	138 IU	Sodium	175 mg
Total Fat	2.53 g	2.53 g Vitamin C	0.2 mg	0.2 mg Dietary Fiber	0.1 g

Date: _____



Quality Score Card for Dairy Products

Name of Menu Item:

Proudly Prepared by:						
Quality Scored by:						
	Mark N/A ENTS secti	Not A	pplicable plain wh			
QUALITY STANDARD	YES	NO	N/A	COMMENTS		
APPEARANCE						
Product appears moist, but not watery.	0	0	О			
Cheese topping is melted, but not stringy.	О	О	О			
No oil or fat is visible.	О	0	О			
TEXTURE OR CONSISTENCY						
Product is fork tender.	О	0	О			
Product is moist, not dry.	О	0	О			
Food items within the product have a defined texture.	О	О	О			
FLAVOR AND SEASONING						
Ingredients have a balanced taste.	O	О	О			
Product is free from a burned taste or off-flavor.	О	О	О			
Seasonings are well blended.	О	0	О			
SERVICE TEMPERATURE						
145 °F–170 °F	0	0	0			





Culinary Practice Score Card for Dairy Products

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Dairy Products.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous pages each technique.	s for a descript	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for dairy pro of the culinary techniques described in this lesson. Check YES or NO when each step is c activity may be completed individually or with a partner. The manager will make this assist the lesson.)	ompleted. (Thi	is practice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	O
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	O
Did you assemble all of the ingredients needed?	О	О
Use the right culinary technique.		
Did you use the culinary technique correctly?	О	\circ
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	0
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager sho submit it to the central office to document the completion of the lesson.	uld keep this c	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Eggs

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method. The culinary techniques discussed in this lesson include cooking cheese.

Egg Products

Processed and convenience forms of eggs for preparation. These products can be classified as refrigerated liquid, frozen, dried, and specialty products.

Just-In-Time Preparation

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Mise en Place

Types of Egg Products:

Refrigerated Liquid Egg Products

- Widely used in foodservice kitchens.
- Packaged in containers that range in size from bags containing a few ounces to cartons (8 ounce–5 pounds) and lacquer coated tins and plastic pails up to 40 pounds.
- Available forms:
 - Whole egg
 - o Egg white
 - Egg yolk
 - o Various blends of yolk and white

Frozen Egg Products

- Products containing egg yolk usually have salt, sugar, or corn syrup added to prevent gelation or increased viscosity during freezing.
- Packaged in 30 pound containers and in 4, 5,
 8, and 10 pound pouches or waxed or plastic cartons.
- Available forms:
 - Whole egg
 - Salted whole egg
 - Whole egg with corn syrup
 - o Whole egg with added yolk (fortified)
 - Whole egg with yolk and corn syrup
 - o Egg white
 - Egg yolk
 - Salted yolk
 - Sugared yolk
 - Yolk and white blends with or without sweeteners or salts

Dried Egg Products

- Foodservice products packaged in 6 ounce pouches and 3 and 25 pound poly packs.
- Available forms:
 - Whole egg
 - Yolk solids

Specialty Egg Products

- Chopped hard-cooked, peeled eggs, cryogenically frozen and used on salad bars.
- Whole hard-cooked, peeled eggs, plain, or pickled.
- Frozen hard-cooked egg rolls or long eggs —
 albumen is cooked around a center core of egg
 yolk. Sliced and used for salads.
- Frozen quiche mixes.
- Frozen scrambled egg mix in boilable pouch.
- Scrambled egg mixes (frozen, refrigerated liquid, or dried).
- Egg substitutes are refrigerated liquid or frozen egg products formulated as substitutes for whole eggs. Such products usually contain only egg white. The yolk is replaced with other ingredients such as non-fat dried milk, vegetable oils, emulsifiers, stabilizers, anti-oxidants, gums, artificial color, minerals, and vitamins.
- Frozen precooked products:
 - Egg patties
 - Fried eggs
 - o Crêpes
 - Scrambled eggs
 - Egg pizza
 - o Omelets
 - French toast
 - Quiches
 - o Egg breakfast sandwiches



Egg Salad Sandwich

Meat/Meat Alternate-Grains/Breads	S				Sandwiches	F-03
operior series	S 05	50 Servings	100 8	100 Servings	- Disortions	
- careinardin	Weight	Measure	Weight	Measure		i
Fresh large eggs, hard- cooked, peeled, chilled		50 each		100 each	1. Finely chop eggs.	
*Fresh onions, chopped	8 02	1% cups	1	2 % cups	2. Combine eggs, onions, celery, pepper, dry mustard, salad dressing or mayonnaise, and pickle relish. Mix lightly until well blended. Spread 4 lb (approximately 2 qt ¼ cup) into each shallow pan (12" x 20" x 2 ½") to a product depth of 2" or less. For 50 servings, use 2 pans. For 100 servings, use 2 pans.	
*Fresh celery, chilled, chopped	14 ½ oz	3 ½ cups	1 lb 13 oz	1 qt 3 cups		
Ground black or white pepper		1 ½ tsp		1 Tbsp		
Dry mustard		1 ½ tsp		1 Tbsp		
Reduced calorie salad	14 oz	1 % cups	1 lb 12 oz	3 ½ cups		
OR Lowfat mayonnaise	OR 14 oz	OR 1% cups	OR 1 lb 12 oz	OR 3 ½ cups		
Sweet pickle relish, undrained, chilled	8 ½ oz	1 cup	1 lb 1 oz	2 cups		
					3. CCP: Cool to 41° F or lower within 4 hours.	
					Cover. Refrigerate until ready to use.	
*Enriched bread (0.9 oz per slice)	5 lb 10 oz	100 slices	11 lb 4 oz	200 slices	 Portion with No. 12 scoop (1/s cup) on 1 slice of bread. Top with second slice of bread. Cut each sandwich diagonally in half. Cover. Refrigerate until service. 	

Marketing Guide for Selected Items	elected Items	
Food as Purchased for	50 Servings	100 Servings
Mature onions	10 oz	1 lb 4 oz
Celery	1 lb 2 oz	2 lb 4 oz
Bread, sliced	3 1/4 sandwich loaves (2 lb each)	6 ½ sandwich loaves (2 lb each)



Egg Salad Sandwich

s/Breads Sandwiches F-03	YIELD: VOLUME:	2 oz equivalent meat/meat 50 Servings: about 8 lb (filling) 50 Servings: about 1 gallon ½ cup (filling) os of grains/breads
Meat/Meat Alternate-Grains/Breads	SERVING:	1 sandwich provides 2 oz equivalent meat/mea alternate and 2 servinos of crains/breads

Tested 2004

about 2 gallons 1 cups (filling) 100 sandwiches

100 Servings:

100 Servings: about 16 lb (filling) 27 lb 4 oz

Calories 244 Saturated Fat 2.15 g Iron 2.29 mg Protein 10.69 g Cholesterol 216 mg Calcium 86 mg Carbohydrate 30.05 g Vitamin A 302 IU Sodium 453 mg Total Fat 8.69 g Vitamin C 0.9 mg Dietary Fiber 1.5 g	Nutrients Per Serving	DU BU				
10.69 g Cholesterol 216 mg Calcium rate 30.05 g Vitamin A 302 IU Sodium 8.69 g Vitamin C 0.9 mg Dietary Fiber	Calories	244	Saturated Fat	2.15 g		.29 mg
rate 30.05 g Vitamin A 302 IU Sodium 8.69 g Vitamin C 0.9 mg Dietary Fiber	Protein	10.69 g	Cholesterol	216 mg	Calcium	86 mg
8.69 g Vitamin C 0.9 mg Dietary Fiber	Carbohydrate	30.05 g	Vitamin A	302 IU	Sodium	153 mg
	Total Fat	8.69 g	Vitamin C	0.9 mg	Dietary Fiber	1.5 g



Breakfast Burrito with Salsa

Finder House	Meat/Meε	Meat/Meat Alternate-Vegetable-Grains/Bread	iins/Breads				Breakfast	3-02
Woright Moseure Woright Moseure OR 2 qt 1 % cups 10 lb 1 gal 2 % cups Arge acial Tip) 45 each 0 R 0 R Whole-kernel corn 1 lb 2 % cups 1 lb 1 % cups 1% cup 3% cup 1 lb 1 % cups 1 lb 1 % cups 1% cup 1 kc ups 2 lb 1 lb 3 % cups 1 lb 1 lb 2 lb 1 lb 2 lb 0 lb		norgalionts	909	Servings	100	Servings	Directions	
whole eggs, thawed 5 lb 2q11% cups 10 lb 1 gal 2% cups on Appers and B 2 k Geach whole-kernel corn 1 lb 2% cups 2 lb 141% cups 11% cups 3 k Geach whole-kernel corn 1 lb 2 2% cups 11% cups 3 k Cups OR 0 R 0 R 0 R 0 R 0 R 0 R 0 R 0 R 0 R			Weight	Measure	Weight	Measure		
OR beach rectal Tip) OR beach rectal Tip) OR beach rectal Tip) OR beach rectal Tip) OR cach rectal Tip) OR cach rectal Tip rectals OR cach rectal Tip rectals OR cach rectals <	<u> </u>	rozen whole eggs, thawed	5 lb	2 qt 1 ½ cups	10 lb	1 gal 2 % cups	1. In a mixer, using the paddle attachment, blend	
1% milk 2 % cup 1 lb 1 % cups 1% milk % cup 1 % cups 1 % cups OR 1 % cups 1 lb 3 % cups OR OR 0 R 0 R Green peppers 0 R 0 R 0 R OR 0 R 0 R 0 R A will or	ш 🦭	OK resh large eggs see Special Tip)		OR 45 each		OR 90 each	eggs, corn, milk, green peppers, onlors, tomatoes, prepared mustard, granulated garlic, hot pepper sauce, and salt.	
1% milk % cup 1% cups OR 1% cups 1 lb 3 % cups OR OR 1 lb 12 cups 1 qt1 cup Onlons, diced 0R 2 % cups 1 lb 1 qt3 cup Onlons, diced 0R 2 % cups 1 lb 1 dt3 cups Onlons, diced 2 % cup 1 % cups 2 % cup 2 % cup A sted onlons 2 % cup 4 oz % cup 1 lb A sted onlons 2 oz % cup 4 oz % cup 2 lb A sted onlons 2 oz % cup 4 oz % cup 1 lb A sted onlons 2 oz % cup 4 oz % cup 2 lb A sted garlic 2 oz % cup 4 oz % cup 2 lb A per sauce 1 lbsp 1 lsp 1 lbsp 1 lsp 2 lbsp 1 lbsp 1 lsp 2 lbsp A correct 1 lo oz 2 % cups 1 lb dt cup 1 ld t cup 4 lbsp 2 lbsp A correct 1 lb d oz 2 % cups <td>ш</td> <td>rozen whole-kernel corn</td> <td>1 9</td> <td>2 % cups</td> <td>2 lb</td> <td>1 qt 1 ½ cups</td> <td></td> <td></td>	ш	rozen whole-kernel corn	1 9	2 % cups	2 lb	1 qt 1 ½ cups		
green peppers, diced OR 8 oz (hor composition) 1½ cups 2 Tbsp 11b 12 oz (hor composition) 140 t 1 cup (hor composition) <td></td> <td>owfat 1% milk</td> <td></td> <td>% cup</td> <td></td> <td>1 ½ cups</td> <td></td> <td></td>		owfat 1% milk		% cup		1 ½ cups		
green peppers OR O	*	Fresh green peppers, diced	8 oz	1 ½ cups 2 Tbsp	1 lb	3 ½ cups		
orions, diced 14 oz OR	ш	rozen green peppers	OR 14 oz	OR 2 ½ cups	OR 1 lb 12 oz	OR 1 qt 1 cup		
1/2 cups	*	Fresh onions, diced	14 oz	2 ½ cups	1 lb 12 oz	1 qt % cup OP		
tomatoes, diced 2 oz ½ cup 1 Tbsp 4 oz ½ cup 2 Tbsp ad yellow mustard 2 oz ½ cup 4 oz ½ cup sted garlic 2 tsp 1 Tbsp 1 tsp 2 Tbsp sper sauce 2 tsp 1 Tbsp 1 tsp 2 Po introper sauce 2 tsp 1 Tbsp 1 tsp 2 Po introper sauce 2 tsp 1 Tbsp 1 tsp 2 Po introper sauce 10 oz 2 ½ cups 1 tb 4 oz 1 dt 1 cup 3 Sp sed 50 each 10 oz 2 ½ cups 1 tb 4 oz 1 dt 1 cup 4 Pia t 1.5 oz each) 50 each 100 each 4 Pia		Dehydrated onions	2 ½ oz	1 ½ cups	5 oz	2 ½ cups		
ad yellow mustard 2 oz ½ cup 4 oz ½ cup sted garlic 2 tsp 1 Tbsp 1 tsp 2 Tbsp sper sauce 2 tsp 1 Tbsp 1 tsp 2 Ponint Control ad fat Cheddar cheese, add four tortillas, add flour tortillas, and flour tortillas, an	*	Fresh tomatoes, diced	2 oz	1/2 cup 1 Tbsp	4 oz	½ cup 2 Tbsp		
sted garlic 2 tsp 1 Tbsp 1 tsp 2 Tbsp 2 Polint Properties 2 Polint Properties 2 Polint Properties 2 Polint Properties 3 Spansion 4 Pilat Cheddar Cheese, 10 oz 2 ½ cups 1 lb 4 oz 1 lb 4 oz 1 lt 1 cup 3 Spansion 2 lt 1 lb 4 oz 1 lt 1 lb 4 oz 1 lt 1 lt 1 lb 4 oz 1 lt 1 l	ம	repared yellow mustard	2 oz	% cup	4 oz	% cup		
1 Tbsp 1 tsp 1 Tbsp	Ü	sranulated garlic		2 tsp		1 Tbsp 1 tsp		
2 Isp 1 Tbsp 1 tsp	Т	lot pepper sauce		1 Tbsp		2 Tbsp		
2. Point where the set of the set	S	alt		2 tsp		1 Tbsp 1 tsp		
ad fat Cheddar cheese, 10 oz 2 ½ cups 11b 4 oz 1 qt 1 cup 3.							Po P	
d flour tortillas, 50 each 100 each 4. (1.5 oz each)	<u>гг го</u>	Reduced fat Cheddar cheese, hredded	10 oz	2 % cups	1 lb 4 oz	1 qt 1 cup		
	ш ю 🥲	inriched flour tortillas, Linch at least 1.5 oz each)		50 each		100 each		



Breakfast Burrito with Salsa

					2000	
					Heat: Compartment steamer: for 2-3 mis Conventional oven: 300° F for 3 nis covered with a clean damp cloth. Convection oven: 300° F for 3 mis covered with a clean damp cloth.	at: Compartment steamer: for 2-3 minutes. Conventional oven: 300° F for 3 minutes covered with a clean damp cloth. Convection oven: 300° F for 3 minutes covered with a clean damp cloth.
Canned salsa	3 lb 5 oz	1 qt 2 ¼ cups (½ No. 10 can)	6 lb 10 oz	3 qt ½ cup (1 No. 10 can)	5. CCP: Hold for hot service at 135° F or higher. Serve each burrito with 2 Tbsp (1 oz) of salsa.	CCP: Hold for hot service at 135° F or higher. Serve each burrito with 2 Tbsp (1 oz) of salsa.
Comments:			Marketing	Guide for Se	Marketing Guide for Selected Items	
. אבר ויומו אבעווען שמועב.			Food as Purchased for	hased for	50 Servings	100 Servings
			Green peppers		10 oz	1 lb 4 oz
			Mature onions		1 lb	2 lb
			Tomatoes		3 oz	zo 9

Tested 2004

2 steamtable pans

50 Servings:

about 9 lb (filling)

50 Servings:

alternate, % cup of vegetable, and 1 % servings of grains/breads. 1 burrito provides 2 oz equivalent meat/meat

100 Servings: 4 steamtable pans

100 Servings: about 18 lb (filling)

Special Tip:

¹⁾ For best results, cook egg filling in a steamer.
2) For 50 servings, use 1 lb 6 ½ oz (1 qt 3 ½ cups) dried whole eggs and 1 qt 3 ½ cups water in place of eggs. For 100 servings, use 2 lb 12 oz (3 qt 3 cups) dried whole eggs and 3 qt 3 cups water in place of eggs.



Breakfast Burrito with Salsa

Breakfast Meat/Meat Alternate-Vegetable-Grains/Breads

3-05

Nutrients Per Serving						
Calories	258	Saturated Fat	2.91 g	Iron	2.95 mg	
Protein	12.22 g	Cholesterol	196 mg	Calcium	143 mg	
Carbohydrate	31.32 g	31.32 g Vitamin A	552 IU	Sodium	564 mg	
Total Fat	9.06 g	9.06 g Vitamin C	5.4 mg	5.4 mg Dietary Fiber	2.3 g	





Quality Score Card for Eggs

Name of Menu Item:

Proudly Prepared by:				
Quality Scored by:				
	lark N/A I TS secti	(Not A	pplicable plain wh	•
QUALITY STANDARD	YES	NO	N/A	COMMENTS
APPEARANCE				
Product appears moist, but not watery.	0	0	0	
No oil or fat is visible.	О	0	0	
Egg yolk is bright yellow and egg white is opaque, with no evidence of greening.	0	0	0	
TEXTURE OR CONSISTENCY				
Product is fork tender.	0	0	О	
Product is moist, not dry.	0	0	0	
Food items within the product have a defined texture.	0	0	0	
Egg mixture is soft, without accumulated water (weeping).	0	0	0	
FLAVOR AND SEASONING				
Ingredients have a balanced taste.	0	0	0	
Product is free from a burned taste			•	

0

0

0

 \bigcirc

0

or off-flavor.

135 °F or higher.

Seasonings are well blended.

SERVICE TEMPERATURE



Name(s):



Culinary Practice Score Card for Eggs

Purpose: The purpose of the activity is to practice Preparing Eggs.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous pages each technique.	for a descrip	tion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for eggs that culinary techniques described in this lesson. Check YES or NO when each step is complet activity may be completed individually or with a partner. The manager will make this assign the lesson.)	ed. (This prac	ctice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	0	О
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	0	O
Did you review the Quality Score Card so you will know how the finished product should look and taste?	0	О
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	0	О
Did you assemble all of the ingredients needed?	О	О
Use the right culinary technique.		
Did you use the culinary technique correctly?	0	O
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	0	O
Did you review the product with the manager?	0	О
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager shou submit it to the central office to document the completion of the lesson.	ld keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Sauces

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Coulis (coolee)

A French term used to describe sauces made from pureed vegetables or fruits. A vegetable coulis is usually cooked, then pureed. A fruit coulis can be made with an uncooked fruit or it may be cooked.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method.

Degreasing

Removing the fat from chilled stock.

Just-In-Time Preparation

Preparing a menu item in small enough amounts so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Reduction

A process that removes some or all of the water in a liquid, which not only thickens it but also concentrates the liquid's flavor. A reduction sauce is a sauce thickened by boiling down the liquid to obtain a thicker consistency and a more concentrated flavor. Barbecue sauce is an example.

Roux (roo)

Flour and fat cooked together and used as a thickener. There are three types of roux, differing according to the length of time they are cooked: white, blond, and brown.

Slurry

A thickener made with a starch and cold water. The starch may be flour (white or browned), cornstarch, arrowroot, or rice flour.

Stock

A flavorful liquid prepared by simmering meat, poultry, fish, and/or vegetables in water until the flavor is extracted.

Straining

Pouring stock or sauce through a very fine sieve or strainer to produce a smoother sauce. This procedure is used to solve the problem of a lumpy sauce. Stocks should always be strained in this way.





Mise en Place

Getting Ready

How to Make a Stock

There are some important things to do when making a stock. Begin with a stock recipe. The ideal time to make a stock is when whole turkeys or other whole meats are on the menu. The meat is removed and the bones cooked with vegetables and seasonings to make a stock.

White Stock

Chicken or Turkey Stock (1 gallon)

Approximately 8 pounds of bones (turkey or chicken)

8 ounces onions, chopped

4 ounces celery, chopped

4 ounces carrots, chopped

Cover with 6 quarts of cold water.

Do not add salt to the stock.

Bring the raw bones and liquid to a boil and reduce the heat so the liquid is at simmer (do not boil). After about 1 hour, add the vegetables and cook until the liquid is reduced by one-third. This will take about 3 hours. Skim the stock as needed during the cooking time.

After the stock is ready, it should be strained to separate all the solids, the bones, and vegetables from the liquid.

Remove the stock from the heat. Using a ladle, carefully ladle the stock from the pot and strain it through a very fine strainer. The strainer should be fine enough that no solids are strained through and the liquid is clear. Use the best tool available for straining stock. Some tools that can be used include a fine mesh-type strainer, a small handheld colander, a china cap, cheesecloth, or a large coffee filter in a colander.

After the stock has been strained, cool it quickly in shallow pans in the refrigerator or place in an ice water bath. Stir the stock periodically during the cooling process. When the stock is completely chilled (41 °F or less), remove any fat that is on the top.

Storing Stocks

Stock is a clear, flavored liquid that freezes well. Chilled stock can be frozen in one gallon amounts to be used for sauces. However, once a stock has been used to make a sauce, the sauce itself should not be frozen. Sauces do not freeze well and should be made in amounts needed the day of production.

Starting Stocks in Cold Water

By starting with cold water, the entire mixture heats at the same time. The impurities from the bones collect on top of the water and can easily be skimmed off. If hot water is added to the bones, the impurities will coagulate and stay in the water making the stock cloudy.



Mise en Place, continued

Simmer Stocks

Simmering is cooking just below the boiling point, approximately 185 °F. At this temperature, the bones release their flavor into the liquid. When a stock is boiled, the impurities and the fat mix in with the water and the stock becomes cloudy.

Skim the Stock

A good stock is clear, like a commercial stock base mixed with water to make a broth. Skimming frequently during cooking removes impurities and fat that rise to the top so the stock remains clear.

Flavored Commercial Stock Bases

Broths made from commercial chicken stock base, beef stock base, and vegetable stock base are all popular substitutes for school-made stock. Although they save labor costs, a commercial stock base never gives as good a flavor as a school-made stock.

Regular commercial stock bases are high in sodium and for that reason their use should be limited in school kitchens. It is always important to choose ingredients that are consistent with the principles of the Dietary Guidelines for Americans. Substitute a low-sodium for a regular commercial stock base.

Using Commercial Stock Bases

- 1. Reduce the amount of regular commercial stock base and use only half to three-quarters as much as recommended in the directions. Use the amount of water recommended. If low-sodium stock base is available, follow the directions and use it full strength.
- 2. Make the sauce using water as the liquid. Then at the end add only enough stock base to get the flavor needed. Begin with half the amount recommended. Add the stock base and then taste test for flavor. Use the least amount of regular stock base needed for flavor.
- 3. Do not add additional salt or use flavorings such as onion salt or garlic salt.

G-07

Sauces, Gravies, and Seasoning Mixes



Tomato Sauce (Meatless)

					ı	ı	1	1					
Directions		 Heat oil. Add onions and cook approximately 5 minutes. 		 Add tomato paste, canned tomatoes, water, pepper, parsley, granulated garlic, and seasonings. Mix well and bring to boil. Reduce heat and simmer, uncovered, 25-30 minutes. 	CCP: Heat to 140° F or higher.							3. CCP: Hold for hot service at 135° F or higher.	Serve over Meat Loaf (see D-27), Meat Balls (see D-27A), or Salisbury Steak (see D-33).
1 Gallon	Measure	3 Tbsp	2 ½ cups OR 1 ½ cups	1qt (⅓ No. 10 can)		3 qt ½ cup (1 No. 10 can)	2 cups	½ tsp	% cup	1 Tbsp	1 tsp 1 tsp % tsp % tsp		
	Weight		13 ½ oz OR 2 ½ oz	2 lb 5 oz		6 lb 6 oz							
1 Quart	Measure	2 1/4 tsp	½ cup 1 Tbsp OR ½ cup 1 Tbsp	1 cup		3 cups 1 Tbsp (¼ No. 10 can)	% cup	½ tsp	1 Tbsp	2 1/4 tsp	% tsp % tsp % tsp pinch		
•	Weight		3 ½ oz	9 % oz		1 lb 9 ½ oz							
Ingredients		Vegetable oil	*Fresh onions, chopped OR Dehydrated onions	Canned tomato paste		Canned diced tomatoes, with juice	Water	Ground black or white pepper	Dried parsley	Granulated garlic	†Seasonings Dried basil Dried oregano Dried marjoram Dried thyme		

Comments:

*See Marketing Guide.
†Italian Seasoning Mix (see G-01, Sauces, Gravies, and
Seasoning Mixes) may be used to replace these ingredients. For 1
quart, use ¾ tsp Italian Seasoning Mix. For 1 gallon, use 1 Tbsp
Italian Seasoning Mix.

	1 Gallon	1 lb
tor selected Items	. 1 Quart	4 02
Marketing Guide ro	Food as Purchased for	Mature onions



G-07

Sauces, Gravies, and Seasoning Mixes

Tomato Sauce (Meatless)

1 Quart: about	about 1 quart	VOLUME: 1 Quart:	32 2 Tbsp servings		SERVING: 2 Tbsp (1 oz ladle).
100101					
India)		VOLUME:		ఠ	SERVING:
: YIELD: COLUME:					
YIELD: YIELD:					

1 Gallon: 128 2 Tbsp serv

128 2 Tbsp servings **1 Gallon:**

about 1 gallon

Tested 2004

Nutrients Per Serving					
Calories	16	16 Saturated Fat	0.05 g Iron	Iron	0.36 mg
Protein	0.56 g	0.56 g Cholesterol	0 mg	Calcinm	11 mg
Carbohydrate	3.01 g	Vitamin A	347 IU	Sodium	37 mg
Total Fat	0.38 g	0.38 g Vitamin C	8.1 mg	8.1 mg Dietary Fiber	0.7 g



Apricot Coulis

Yield: 1 ½ quarts

Ingredients	Amount	Directions
Dried Apricots Water Sugar	1 pound 2 1/2 cups 5 ounces	 Combine apricots, water, and sugar in a saucepan. Simmer for 5 minutes. Remove from heat; cool. Puree mixture in a food processor.
Orange Juice	2 1/2 cups	3. Add orange juice. Serve chilled.

Serving size: Serve #40 scoop (1 1/2 tablespoons) of Apricot Coulis as a sauce for cake squares, vanilla pudding, ice cream, or chicken or pork tenders. The recipe makes approximately 64 servings.

Variation: Dried peaches can be substituted for all or part of the dried apricots.

Adapted from: Healthy Cuisine for Kids Workshop.

Knowing how a sauce recipe works helps make sense of the culinary techniques used for making sauces. Understanding the basic principles of sauce making also helps to justify using recipes. Sauces can become a more important part of school menus and can help to liven up traditional dishes. Use USDA recipes for sauces and look for new ones.





Chicken Tetrazzini

Meat/Meat Alternate-Vegetable-Grains/Breads	ains/Breads				Main Dishes	D-42
obs. cib.com.	20	50 Servings	100	100 Servings	Discretions	
STEPPED STEP	Weight	Measure	Weight	Measure	200000000000000000000000000000000000000	
Water		3 gal		6 gal	Boil water and salt in a steam-jacketed kettle or stock pot. Add spaghetti. Cook until firm-tender, 8 minutes. Drain and hold in cold water. Set aside.	
Salt		2 tsp		1 Tbsp 1 tsp		
Enriched spaghetti, broken into thirds	2 lb 6 oz	1 qt 3 % cups	4 lb 12 oz	3 qt 3 ½ cups		
Vegetable oil		% cup		% cup	2. In a steam-jacketed kettle or large sauce pan, heat the vegetable oil. Add the vegetable mix or frozen vegetables, mushrooms, and pimientos (optional). Sauté vegetables 5 minutes or until tender. Set aside.	
Vegetable mix:	:	Č	:	•		
*Fresh onions, diced	٦ . و :	2 % cups	2 lb	1 qt 1 ½ cups		
resh carrots, diced	<u>Ω</u> .	ıbı.	Q ;	24		
*Fresh celery, diced	8 0Z	2 cups	1 lb	1 qt		
*Fresh green peppers,	4 oz	% cup 2 Tbsp	8 oz	1 % cups		
OB	a C	OB	ac	ac		
Frozen mixed vegetables	2 lb 8 oz	1 qt 3 ½ cups	2 lb	3 qt 3 cups		
*Fresh mushrooms, sliced	1 lb 4 oz	2 qt	2 lb 8 oz	1 gal		
Canned sliced mushrooms, drained	10 oz	1 % cups 2 Tbsp	1 lb 4 oz	3 % cups		
Canned pimientos, diced, drained (optional)	8 oz	1 cup	1 lb	2 cups		
Margarine or butter	12 oz	1 ½ cups	1 lb 8 oz	3 cups	 Melt the margarine or butter in a steam-jacketed kettle or stock pot. Add flour and cook for 5 minutes. 	
Enriched all-purpose flour	8 oz	1 % cups 2 Tbsp	1 lb	3 % cups		
Lowfat 1% milk, hot		3 qt 3 cups		1 gal 3 ½ qt	 Slowly add the milk to the flour mixture. Simmer, stirring frequently, until the mixture is thickened. Add chicken stock, pepper, onion salt, and garlic. Simmer for 5 minutes. 	
Chicken stock, non-MSG, hot		2 qt 1 cup		1 gal 2 cups		
Ground black or white pepper		1 tsp		2 tsp		
Onion salt		2 tsp		1 Tbsp 1 tsp		
Granulated garlic		2 tsp		1 Tbsp 1 tsp		
_						



Chicken Tetrazzini

D-42					
Main Dishes	5. In each steamtable pan (12" x 20" x 2 ½"), combine 3 lb 12 oz (3 qt) of cooked spaghetti, 3 lb 2 oz of cooked diced chicken, 1 qt of cooked vegetables, and 2 qt 1 cup of sauce. For 50 servings, use 2 pans. For 100 servings, use 4 pans.	 Sprinkle 3 oz (% cup 2 Tbsp) of Parmesan cheese on top of each pan. 	 Bake until golden brown: Conventional oven: 350° F for 30 minutes Convection oven: 325° F for 35 minutes CCP: Heat to 165° F or higher for at least 15 seconds. 	8. CCP: Hold for hot service at 135° F or higher.	Cut each pan 5×5 (25 pieces per pan).
		1 qt ¼ cup			
	12 lb 8 oz	12 oz			
		2 cups 2 Tbsp			
ains/Breads	6 lb 4 oz	8 oz			
Meat/Meat Alternate-Vegetable-Grains/Breads	*Cooked chicken, diced (see Special Tip)	Grated Parmesan cheese			
Meat/N					

Comments: *See Marketing Guide.

VOLUME:	50 Servings: 2 steamtable pans
YIELD:	50 Servings: about 30 lb
SERVING:	I piece provides 2 oz equivalent meat/meat alternate, % cup of vegetable, and ½ serving of grains/breads.

100 Servings: about 60 lb

100 Servings: 4 steamtable pans

Tested 2004



Chicken Tetrazzini

Meat/Meat Alternate-Vegetable-Grains/Breads

Main Dishes

Special Tip: *Cooked turkey can be substituted for chicken.

Nutrients Per Serving	·					
Calories	313	Saturated Fat	3.61 g	Iron	1.88 mg	
Protein	23.54 g	23.54 g Cholesterol	56 mg	Calcinm	156 mg	
Carbohydrate	24.27 g	24.27 g Vitamin A	2490 IU	Sodium	355 mg	
Total Fat	13.13 g	13.13 g Vitamin C	3.4 mg	Dietary Fiber	1.6 g	





Quality Score Card for Sauces

Date:	Name of Menu Item:
Proudly Prepared by:	
Quality Scored by:	

Directions: When the food is ready to serve, use this Quality Score Card to evaluate the quality. Mark **YES** when the food meets the standard and **NO** when it does not. Mark **N/A** (Not Applicable) when a specific quality standard does not apply to the food being evaluated. Use the **COMMENTS** section to explain why a food does not meet a standard.

Remember, if a food does not meet the quality standards, it should not be placed on the serving line.

QUALITY STANDARD	YES	NO	N/A	COMMENTS
APPEARANCE				
No lumps are visible.	0	0	0	
There is no visible fat or scum.	0	0	0	
Color is consistent with the main ingredients.	0	0	0	
The sauce/gravy appears fresh, not too jellied.	0	0	0	
TEXTURE OR CONSISTENCY				
Thickness is about like corn syrup.	0	0	0	
There are no lumps.	0	0	0	
Added ingredients are fork-tender.	0	0	0	
FLAVOR AND SEASONING				
Seasonings are balanced with no one additive predominant (salt is not an obvious taste).	0	0	0	
Thickener has been thoroughly cooked so there is no starchy taste.	0	0	0	
True flavor with no taste of burned thickener or off-flavor.	0	0	0	
The sauce or gravy complements the food item.	0	0	0	
SERVICE TEMPERATURE				
160 °F–170 °F	О	О	0	



Name(s): _____



Culinary Practice Score Card for Sauces

<i>Purpose:</i> The purpose of the activity is to practice Preparing Sauces.		
Culinary Technique: (Identify the culinary technique that you will use. Refer to the previous pages each technique.)	for a descrip	tion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for sauce that is culinary techniques described in this lesson Check YES or NO when each step is complete activity may be completed individually or with a partner. The manager will make this assign the lesson.)	ed. (This prac	ctice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	O	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	0	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	0	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	0	0
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	0	0
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	0	0
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved? How can the flavor or taste of the food be improved? How can the texture and tenderness of the food be improved? How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager shoul submit it to the central office to document the completion of the lesson.	d keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Cakes, Cookies, and Pastry

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Blend

To thoroughly mix two or more ingredients.

Conventional Oven

An electric or gas oven arranged either as decks or under a range top.

Convection Oven

An oven that has a fan that constantly circulates heated air across the food. This convection action increases the heat absorption process, shortens required cooking time, and reduces shrinkage of food.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method.

Fold

To combine by using two motions, cutting vertically through the mixture and turning the mixture over and over.

Just-In-Time Preparation

Preparing a menu item in small enough amounts so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Leavening Agent

An ingredient that makes a product light and porous. Leavening agents include yeast, baking powder, baking soda, eggs, egg whites, air, and steam.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The chemical substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.



Mise en Place

Dairy Products

Dairy products in baked good can be used as a liquid ingredient or as a fat. They provide batters with moisture, tenderizing ability, and increased nutrients. Dairy products are also used in icings and fillings.

Commonly Used Products

Type of dairy product	Percent fat	Grams of fat
		per cup
Skim milk	0 %	.5
Fat-free yogurt	Less than 1/2 %	.5
Evaporated skim milk	Less than 1/2 %	.5
Sour cream, fat free	0	0
Buttermilk	1 %	2.2
Low-fat milk	1 %	2.2
Reduced-fat milk	2 %	4.4
Whole milk	3.25 %	7.7
Yogurt, whole milk	3.25 %	7.7
Evaporated milk	6.5 %	19
Sweetened condensed milk	8 %	26.6
Ricotta cheese	7 %	32
Half-and-half	10–12 %	27.6
Cream cheese, low-fat	17–18 %	42
Light cream	16–22 %	46.3
Sour cream	18–30 %	48.2
Cream cheese	33–55 %	80.9
Heavy cream	36–40 %	88
Butter	80 %	182

Spices commonly used in cakes, cookies, pies

Allspice

Cinnamon

Clove

Ginger

Nutmeg

Vanilla



What Happened to the Cake?

Cake Problem (Exterior)	What Could Have Happen	ed to Cause It?
Too little volume	Too little flourToo much leaveningWrong kind of flourBatter too warm	Too much liquidOven too hotUnbalanced recipe
Uneven shape	Improper mixingUneven oven heat	Batter spread unevenlyOven rack not level
Crust too dark	Too much sugarOverbaked	Oven too hot
Pale color	Too little sugarWrong type panOven temperature too low	Too much liquidUnderbaked
Crust too thick	Oven not hot enough	
Cake bursts on top	Incorrect amount of flourOven too hotOvermixed	 Too little liquid Improper type of flour
Specks on cake	Sugar too coarse	Not enough liquid
Cake falls during baking	Not enough flourCake is moved before structure	Underbaked e is formed
Cake Problem (Interior)		
Coarse, uneven crumb	Improperly mixedNot enough leavening agentUnbalanced formula	Batter too stiffNot enough eggs
Compact texture	 Overmixed 	
Tunnels	 Too much egg Overmixed Excessive bottom heat	Too little sugarOven too hot
Sinking of fruit	Too much leavening agentImproper type of flourImbalanced recipe	 Too much heat Fruit not drained properly





Cookies

Categories of Cookies

Bar or Sheet Cookies

- Make a soft dough or batter.
- Bake in a half-sheet pan (50 servings) or a full sheet pan (100 servings).

Scooped or Dropped Cookies

- Make a soft dough.
- Shape and bake as soon as the dough is mixed.
- Use the appropriate scoop:
 - A number 40 scoop will make a medium-sized, 2 1/2–3 inch cookie, weighing about 3/4 ounce.
 - A number 20, 24, or 30 scoop can be used for larger cookies.
- Allow room for expanding cookies typically spread during baking.
- Bake at 325 °F-350 °F.

Molded or Refrigerated Cookies

- Make a stiff dough.
- Roll into a log or balls.

Rolled Cookies

- Make a stiff dough.
- Roll on a lightly floured surface.

Tips

- Remove from sheet pans using an offset spatula while cookies are still slightly warm.
- Do not overbake cookies.
- Cool cookies on a rack.

What Happened to the Cookie?

Cookie Problem	What Could Have Happer	ned to Cause It?
Uneven shape	Improper mixingUneven oven heat	Improper dropping of dough
Excessive spreading	Too much liquidDough too warmOvercreaming	Too much fat and sugarIncorrect oven temperature
Dry, crumbly texture	Incorrect proportion of ingredients	Incorrect oven temperatureOverbaking
Coarse, uneven crumb	Improperly mixedNot enough leavening agentOven temperature too low	Batter too stiffNot enough eggs
Tough	Excessive rolling	
Hard, crusty top	Overmixed	Overbaked





Basic Principles of Preparing Pies

A good pie has a tender, flaky crust that can top a variety of fillings. Pies can be sweet and served as a dessert. Filled with various fruits, pies are a favorite way to add more fruit to your menus. Pies can be savory and be meat-filled or vegetarian.

A basic pie dough ratio of ingredients:

- 3 parts flour
- 2 parts fat
- 1 part water (by weight)

Tips for a tender, flaky pie crust:

- Use a solid, cold fat.
- Use a low-protein flour.
- Add an acid.
- Avoid using too much water.
- Do not overmix.
- Allow the dough to rest.

What Happened to the Pie?

Pie Problem	What Could Have Happer	ned to Cause It?
Smooth surface	Overhandling	Too much flour when rolling
Shrunken	Stretched crust when easing into the panProtein content of flour too l	OvermixingToo much waterhigh
Tough	Too much waterOverhandling	OvermixingProtein content of flour too high
Not flaky	Temperature of dough too high	Shortening too softOvermixing
Too tender	 Undermixing Too much shortening	Not enough liquid
Soggy bottom crust	Baked too short timeOven temperature too low	Too much fat in crust
Dry	Shortening cut in too finely	Not enough liquid



Desserts



New Oatmeal Raisin Cookies

50 Servings	Ser	vings		100 Servings	Directions
Weight Measure	Measure		Weight	Measure	
1 lb 8 oz 3 cups	3 cups	1	3 lb	1 qt 2 cups	Combine sugar and margarine or butter in mixer with a paddle attachment for 5 minutes on medium speed until smooth and creamy.
8 oz 1 cup	1 cup		1 lb	2 cups	
8 oz % cup 3 Tbsp	% cup 3 Tbsp		년 인	1 % cups 2 Tbsp	2. Add eggs slowly. Mix on medium speed for 1
OR 5 each	OR 5 each			OR 9 each	
% cup	% cup			1 cup	Add milk and applesauce. Mix for 1 minute on medium speed. Scrape down sides of bowl.
8 oz 1 cup	1 cup		1 lb	2 cups	
12 oz 2 % cups	2 % cups		1 lb 8 oz	1 qt 1 ½ cups	 Add the flour, baking soda, salt, cinnamon, and nutmeg. Mix for 2 minutes on low speed until blended.
1 tsp	1 tsp			2 tsp	
1 tsp	1 tsp			2 tsp	
2 tsp	2 tsp			1 Tbsp 1 tsp	
1 tsp	1 tsp			2 tsp	
1 lb 4 oz 1 qt 3 cups	1 qt 3 cups		2 lb 8 oz	3 qt 2 cups	Add oats and raisins. Mix on low speed for 30 seconds.
13 oz 2 % cups	2 % cups		1 lb 10 oz	1 qt 1 ½ cups	6. Lightly coat each sheet pan (18" x 26" x 1") with pan release spray or line with parchment paper. For 50 servings, use 3 pans, one pan will have only 10 cookies. For 100 servings, use 5 pans. Portion with level No. 24 scoop (2 % Tbsp) in rows of 4 across and 5 down.
					7. Bake until lightly browned: Conventional oven: 350° F for 18-20 minutes Convection oven: 325° F for 10-12 minutes

DERVING:	TAFED.		VOLOME	
1 cookie.	50 Servings:	50 Servings: about 6 lb 1 oz (dough)	50 Servings:	about 2 quarts 1/2 cup (dough)
For Enhanced Meal Pattern only: 1 cookie provides	•			50 cookies
1 serving of grains/breads.				



C-25

New Oatmeal Raisin Cookies

100 Servings: 100 Servings: about 12 lb 2 oz (dough)

Desserts

about 1 gallon 1 cup (dough) 100 cookies

Edited 2006

For 50 servings, use 2 1/4 oz (3/4 cup) dried whole eggs and 3/4 cup water in place of eggs. For 100 servings, use 4 ½ oz (1 ½ cup) dried whole eggs and 1 cup water in place of eggs.

For bar cookies, spread 6 lb 5 oz (2 qt 1 2 cup) of dough in a half-sheet pan (18" x 13" x 1") which has been lightly coated with pan release spray. Bake for 20-25 minutes in a 325° F convection oven. Cut 5 x 10 for 50 servings.

Calories 188 Saturated Fat 1.07 g Iron 1.13 mg Protein 3.56 g Cholesterol 19 mg Calcium 19 mg Carbohydrate 33.34 g Vitamin A 197 IU Sodium 122 mg Total Fat 5.04 g Vitamin C 0.4 mg Dietary Fiber 1.8 g	ts Per Serving 188 Saturated Fat 1.07 g Iron
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Carrot Cake

Vegeta	Vegetable/Fruit					Desserts	C-05
	narediente	S 05	50 Servings	100	100 Servings	Directions	
		Weight	Measure	Weight	Measure	20000	
	Enriched all-purpose flour	1 lb 14 oz	1 qt 3 cups	3 lb 12 oz	3 qt 2 cups	Blend flour, sugar, baking powder, salt, cinnamon, cloves, nutmeg (optional), and dry milk in mixer for 1 minute on low speed.	
	Sugar	1 lb 11 ½ oz	1 qt	3 lb 7 oz	2 qt		
	Baking powder		3 Tbsp 2 tsp	3 oz	1/2 cup 3 1/3 Tbsp		
	Salt		1 ½ tsp		1 Tbsp		
	Ground cinnamon		1 ½ tsp		1 Tbsp		
	Ground cloves		1 tsp		2 tsp		
	Ground nutmeg (optional)		1 tsp		2 tsp		
	Instant nonfat dry milk	2 1/2 OZ	1 cup	5 oz	2 cups		
	Frozen whole eggs, thawed	1 lb	1 % cups 2 Tbsp	2 lb	3 ¾ cups	2. Add eggs and oil to dry ingredients. Blend for	
	Fresh large eggs (see Special Tip)		OR 9 each		OR 18 each	on medium speed.	
	Vegetable oil		2 cups		1 qt		
	*Fresh carrots, shredded	1 lb 14 oz	2 qt % cup	3 lb 12 oz	1 gal 1 ½ cups	 Add carrots, pineapple, and nuts (optional). Blend for 30 seconds on low speed. Beat for 2 minutes on medium speed. 	
	Canned, crushed pineapple, drained	1 lb 3 oz	2 ½ cups (¼ No. 10 can)	2 lb 6 oz	1 qt 1 cup (½ No. 10 can)		
	Chopped walnuts (optional)	6 ½ oz	1 ½ cups	13 oz	3 cups		
						4. Pour 8 lb 12 oz (approximately 1 gal) batter into each sheet pan (18" x 26" x 1") which has been lightly coated with pan release spray and dusted with flour. For 50 servings, use 1 pan. For 100 servings, use 2 pans.	
						5. Bake until lightly browned: Conventional oven: 350° F for 35-45 minutes Convection oven: 300° F for 30-40 minutes	
						Cool. If desired, frost or lightly dust with powdered sugar.	
						7. Cut each pan 5 x 10 (50 pieces per pan).	



Carrot Cake

Marketing Guide for Selected Items Food as Purchased for 50 Servings Carrots 2 lb 5 oz	Vegetable/Fruit Comments: * See Marketing Guide.
--	--

SERVING:	YIELD:		VOLUME:		
1 piece provides ½ cup of vegetable and fruit. For Enhanced Meal Pattern only: 1 piece also provides 1 serving of grains/breads.	50 Servings:	50 Servings: about 8 lb 12 oz (batter) about 7 lb 14 oz	50 Servings:	about 1 gallon (batter) 1 sheet pan	

Tested 2004

about 2 gallons (batter) 2 sheet pans

100 Servings:

100 Servings: about 17 lb 8 oz (batter) about 15 lb 12 oz

Special Tip: For 50 servings, use 4 $\,\%$ oz (1 $\,\%$ cup) dried whole eggs and 1 $\,\%$ cup water in place of eggs.

For 100 servings, use 9 oz (3 cups) dried whole eggs and 3 cups water in place of eggs.

Nutrients Per Serving					
Calories	232	Saturated Fat	1.54 g	Iron	1.18 mg
Protein 3.	.62 g	3.62 g Cholesterol	39 mg	Calcium	82 mg
Carbohydrate 33.	33.02 g	Vitamin A	3898 IU	Sodium	190 mg
Total Fat 9.	.86 g	9.86 g Vitamin C	1.5 mg	1.5 mg Dietary Fiber	1.2 g



Quality Score Card for Cakes and Cookies

Name of Menu Item:

Proudly Prepared by:				
Quality Scored by:				
	Iark N /A	Not A	pplicable	to evaluate the quality. Mark YES when the food e) when a specific quality standard does not apply by a food does not meet a standard.
Remember, if a food does not meet the quality standards,	it should	not be pl	aced on the	e serving line.
QUALITY STANDARD	YES	NO	N/A	COMMENTS
APPEARANCE				
Top has a smooth surface.	0	O	О	
Top is slightly rounded.	0	О	О	
Volume is high for the pan size.	0	О	О	
Interior is fine-grained with small, evenly distributed cell walls.	O	О	О	
Interior has uniform distribution of gas holes.	0	О	О	
Color is golden-brown (except chocolate cake).	0	О	О	
Portions are uniform in size.	0	О	О	
Icing or flavor enhancer covers entire cake portion.	0	0	О	
TEXTURE OR CONSISTENCY				
Cake is light, but not crumbly.	0	O	О	
Texture is soft, velvety, and moist (not tacky or soggy).	0	О	О	
Crumb is so tender as to <i>melt in the mouth</i> .	0	О	О	
FLAVOR AND SEASONING				
Flavor is delicate, sweet, and well-blended (no foreign flavors such as oily, starchy, or burnt flavor).	0	0	0	
Icing or other flavor enhancer is fresh tasting.	0	О	О	
SERVICE TEMPERATURE				
60 °F–70 °F	\circ	\circ	\circ	



Quality Score Card for Pies (Pastry)

Date:	Name of Menu It	em:			
Proudly Prepared by:					
Quality Scored by:					
meets the standard and NO	when it does not. No. Use the COMMEN	Mark N/ A NTS sect	(Not A ion to ex	pplicable plain wh	to evaluate the quality. Mark YES when the food e) when a specific quality standard does not apply by a food does not meet a standard. The serving line.
QUALITY STANDARD		YES	NO	N/A	COMMENTS
APPEARANCE					
Filling pieces are similar in s	size.	0	0	0	
Filling pieces are intact.		О	0	О	
Garnish is edible and appro	priate for the dish.	О	0	О	
Pastry or topping has a gold	en brown color.	О	0	О	
Pastry has a blistery surface.		О	0	О	
TEXTURE OR CONSIST	TENCY				
All pieces of the filling have	the same texture.	O	0	О	
Pastry has a flaky texture.		О	О	О	
Pastry cuts easily.		О	О	О	
FLAVOR AND SEASONI	NG				
If seasonings have been used detectable but not overp	•	О	0	О	
Seasonings enhance the filling	ng flavor.	О	О	О	
Pastry has a pleasant, bland	flavor.	О	0	О	
SERVICE TEMPERATUR	RE				
Pastry Dessert: 60 °F–70 °F		O	0	O	
Hot Pastry: 160 °F–180 °F		О	О	О	



Culinary Practice Score Card for Cakes, Cookies, and Pies (Pastry)

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Cakes, Cookies, and Pastry.	•	
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous page each technique.	ges for a descript	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for either concludes one of the culinary techniques described in this lesson. Check YES or NO when (This practice activity may be completed individually or with a partner. The manager will the end of the lesson.)	n each step is co	mpleted.
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	О	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	0
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	O
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	0
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	0	\circ
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	0
Did you review the product with the manager?	О	0
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager should be submit it to the central office to document the completion of the lesson.	nould keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Yeast Breads

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Wheat Flour Terms

Enriched

Flour supplemented with iron and four B-vitamins (thiamine, niacin, riboflavin, and folate) and may be with calcium, to replace some of the nutrients lost during processing.

Fortified

Implies that something is added to a product that makes its nutritional status higher than the product made from unprocessed raw materials.

Pre-sifted flour

Sifted at the mill, making it unnecessary to sift before measuring.

Bromated flour

Largely discontinued in the United States. Ascorbic acid is now being added to strengthen the flour for bread doughs.

Bleached

Refers to flour that has been chemically-bleached to whiten or improve the baking qualities. No change occurs in the nutritional value of the flour and no harmful chemical residues remain. Bleaching speeds up the natural lightening and maturing of flour.

Unbleached flour

Aged and bleached naturally by oxygen in the air. It is more golden in color and may not have the consistency in baking qualities that bleached flour does. Unbleached is preferred for yeast breads because bleaching affects gluten strength.

Patent flour, bleached or unbleached

The highest grade of flour. It is lower in ash and protein with good color. Market-wise, it is considered the highest in value and mostly used by bakers.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method. The culinary techniques described in this lesson include preparing fresh fruits and baking fruits.

Gluten

The protein in flour. Gluten strands are formed as the result of kneading the flour and water and they give the structure to a bread product.

Just-In-Time Preparation

Preparing a menu item in small enough amounts that it will be at its peak of quality when placed on the service line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are batch cooking and cooking to the line.

Mise en Place (meez-un-plahss)

A French term used by chefs and culinary food professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Proofing

The final rising period before baking for yeast doughs that have been shaped.

Scaling

A baking term that means measuring and weighing ingredients. Dry ingredients should be weighed. If scales are not available, measure dry ingredients with dry measuring utensils. Liquid ingredients should be measured using liquid measuring utensils.

Slashing

Using a sharp knife to make several cuts diagonally across the bread loaf before it is baked. This is usually done for breads that have a hard crust, such as French bread. Also called docking.





What Happened to the Yeast Bread?

Yeast Bread Problem	What Could Have Happened to	o Cause It?
Too much volume	Too much yeastOven temperature too lowWrong kind of flour for the bread recipe	Too little saltOverproofedToo much dough for the baking pan
Too little volume	 Too little yeast or old yeast Dough chilled Over- or underproofed Not enough dough in baking pan 	 Too much salt Wrong kind of flour for the bread recipe Kneaded too much or not enough
Pale color	Not enough sugarOverfermented dough	Oven temperature too lowDried crust formed before baking
Dark color	Too much sugarDough temperature too lowBaked too long	Too much milkOven temperature too high
Cracked crust	 Overmixed Improperly shaped Top of hard-crust bread not slashed properly before baking 	Dough too stiffCooled too fastDried crust formed during proofing
Blisters on crust	Too much liquid	Improperly shaped
Coarse texture	Not enough flourUnderkneadedTemperature of dough out of mixer too high	Slack doughProofed too long or at too high a temperature
Large holes in bread	Too much yeastInadequate punch down	Overkneaded
Heavy texture	UnderkneadedNot enough yeastToo short proofing timeToo much dough in the baking par	 Too cool proofing temperature Poor distribution of ingredients Yeast partially killed by hot liquid
Crumbly, dry	Too stiff doughDough proofed too long	UnderkneadedOven temperature too low
Poor flavor	 Flat flavor - too little salt Sour flavor - too long proofing or poor quality ingredients 	Yeasty flavor - too long proofing period or proofing temperature too warm





Rolls (Yeast)

Grains/Breads					Grains/Breads B	B-16
	20	50 Servings	100	100 Servings		
Ingredients	Weight	Measure	Weight	Measure	Directions	
					For best results, have all ingredients and utensils at room temperature.	
Active dry yeast (see Special Tip)		% cnb	3 1/4 OZ	½ cup 2 Tbsp	Dissolve dry yeast in warm water. Let stand for 4-5 minutes.	
Water, warm (110° F)		1 ½ cups		3 cups		
Enriched all-purpose flour	3 lb 10 oz	3 qt 1 ½ cups	7 lb 4 oz	1 gal 2 ¾ qt	Place flour, dry milk, sugar, and salt in mixer bowl. Blend with dough hook for approximately 2 minutes on low speed.	
Instant nonfat dry milk	3 1/4 oz	1 ½ cups	6 ½ oz	2 % cups		
Sugar	5 % oz	% cup 2 Tbsp	11 ½ oz	1 % cups		
Salt		2 Tbsp	2 ½ oz	1/2 cup		
Vegetable oil		% cup 2 Tbsp		1 % cups	Add oil and blend for approximately 2 minutes on low speed.	
Water (68° F)		2 ½ cups		1 qt 1 cup	4. Add water. Mix for 1 minute on low speed.	
					Add dissolved yeast and mix for 2 minutes on low speed.	
					Knead dough on medium speed for 8 minutes, or until dough is smooth and elastic.	
					7. Place dough in warm area (about 90° F) for 45-60 minutes.	
					8. Punch down dough to remove air bubbles.	
					 Form rolls from dough by pinching off 2 oz pieces and shaping. Place rolls in rows of 5 across and 10 down on sheet pans (18" x 26" x"1") which have been lightly coated with pan release spray. For 50 servings, use 1 pan. For 100 servings, use 2 pans. 	
					 Place in a warm area (about 90° F) until double in size, 30-50 minutes. 	
					 Bake until lightly browned: Conventional oven: 400° F for 18-20 minutes Convection oven: 350° F for 12-14 minutes 	
Margarine or butter, melted (optional)		1 Tbsp		2 Tbsp	 Optional: Brush lightly with melted margarine or butter (approximately 1 Tbsp per pan) while warm. 	



Rolls (Yeast)

Grains/Breads			Grains/Breads	ls	B-16
SERVING:	YIELD:		VOLUME:		
1 roll provides 2 servings of grains/breads.	50 Servings: about 6	about 6 lb 4 oz (dough)	50 Servings:	about 50 rolls	

100 Servings: about 12 lb 8 oz (dough) 100 Servings: about 100 rolls

Tested 2004

For 50 servings, omit step 1. In step 2, add $^{1/4}$ cup high-activity (instant) yeast. Continue with step 3. In step 4, add 1 qt water (110° F). Omit step 5. In step 6, knead for 10 minutes. Continue with steps 7-12.

For 100 servings, omit step 1. In step 2, add 2 ½ oz (½ cup) high-activity (instant) yeast. Continue with step 3. In step 4, add 2 qt water (110° F). Omit step 5. In step 6, knead for 10 minutes. Continue with steps 7-12.

Variations: A. Frankfurter Rolls 50 and 100 servings: Follow steps 1-8. In step 9, shape 2 oz pieces of dough to approximately 2 1 /2" x 6 1 /2". Place rolls in rows of 8 down and 4 across on sheet pans which have been lightly coated with pan release spray. Continue with steps 10-12.

B. Hamburger Rolls

50 and 100 servings: Follow steps 1-8. In step 9, shape and flatten 2 oz pieces of dough to approximately 4" in diameter. Place rolls in rows of 6 down and 4 across on sheet pans which have been lightly coated with pan release spray. Continue with steps 10-12.

C. Wheat Rolls

50 servings: Follow step 1. In step 2, use 1 lb 13 oz (1 qt 2 1 /2 cups) enriched all-purpose or bread flour and 1 lb 13 oz (1 qt 2 3 4 cups) whole wheat flour. Continue with steps 3-12.

100 servings: Follow step 1. In step 2, use 3 lb 10 oz (3 qt 1 cup) enriched all-purpose or bread flour and 3 lb 10 oz (3 qt 1 % cups) whole wheat flour. Continue with steps 3-12.

B-16

Grains/Breads



Rolls (Yeast)

Grains/Breads

Calories 176 Saturated Fat 0.60 g Iron 1.75 mg Protein 4.53 g Cholesterol 0 mg Calcium 29 mg Carbohydrate 29.80 g Vitamin A 44 IU Sodium 291 mg Total Fat 4.21 g Vitamin C 0.1 mg Dietary Fiber 1.2 g	Nutrients Per Serving	61			
4.53 g Cholesterol 0 mg Calcium 29.80 g Vitamin A 44 IU Sodium 4.21 g Vitamin C 0.1 mg Dietary Fiber	Calories	176	09°C	Iron	1.75 mg
29.80 g Vitamin A 44 IU Sodium 4.21 g Vitamin C 0.1 mg Dietary Fiber	Protein	4.53 g	0 mg	Calcium	29 mg
4.21 g Vitamin C 0.1 mg Dietary Fiber	Carbohydrate	29.80 g	44 IU	Sodium	291 mg
	Total Fat	4.21 g	.1 mg	Dietary Fiber	1.2 g





Quality Score Card for Yeast Breads

Date: Name of Menu It	em:			
Proudly Prepared by:				
Quality Scored by:				
•	lark N /A	Not A ion to ex	pplicable plain wh	•
QUALITY STANDARD	YES	NO	N/A	COMMENTS
APPEARANCE				
Color of crust is golden brown.	0	0	0	
Color is smooth, free from air bubbles.	О	0	О	
Slices of bread are uniform in size.	О	0	О	
Rolls are uniform in size.	0	О	О	
Color of the interior is creamy white (or light brown, depending on the type of flour used).	0	0	0	
TEXTURE OR CONSISTENCY				
Crust is tender (French bread or other hard crust breads should have a crisp crust).	0	0	0	
Grain is moist.	0	О	О	
Rolls are uniform in size.	О	О	О	
Grain is fine and even (free from holes).	О	О	О	
Bread is fresh, not dried out or stale.	О	О	О	
Crumb is elastic.	О	О	О	
FLAVOR AND SEASONING				
Bread is fresh-tasting with a nut-like flavor.	0	О	О	
Bread is free from foreign flavors such as rancid fat or sour taste.	0	0	0	
SERVICE TEMPERATURE				
No lower than 60 °F	\circ	\circ	0	





Culinary Practice Score Card for Yeast Breads

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Yeast Breads.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous pages feech technique.	or a descripti	ion of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for yeast bread the culinary techniques described in this lesson. Check YES or NO when each step is completely activity may be completed individually or with a partner. The manager will make this assign lesson.)	leted. (This p	ractice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	0	\circ
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	O
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	О	O
Did you assemble all of the ingredients needed?	О	О
Use the right culinary technique.		
Did you use the culinary technique correctly?	О	\circ
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	О	O
Did you review the product with the manager?	О	О
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager shoul submit it to the central office to document the completion of the lesson.	d keep this o	on file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Quick Breads

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

All-Purpose Flour

White flour milled from hard wheats or a blend of hard and soft wheats. It gives the best results for many kinds of products, including some yeast breads, quick breads, cakes, cookies, pastries, and noodles. It is usually enriched and may be bleached or unbleached. Protein varies from 8–10%.

Conventional Oven

An electric or gas oven arranged either as decks or under a range top.

Convection Oven

An oven that has a fan that constantly circulates heated air across the food. This convection action increases the heat absorption process, shortens required cooking time, and reduces shrinkage of food.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method.

Just-In-Time Preparation

Preparing a menu item in small enough amounts so that it will be at its peak of quality when placed on the serving line. This preparation schedule avoids holding any food for a long time. Other terms that mean the same thing are *batch cooking* and *cooking to the line*.

Leavening Agent

An ingredient that makes a product light and porous. Leavening agents include yeast, baking powder, baking soda, eggs, egg whites, air, and steam.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Nutrients

The substances found in food that nourish the body. There are six classes of nutrients: proteins, carbohydrates, fats, water, minerals, and vitamins.

Self-Rising Flour

Also referred to as phosphated flour, it is a convenience product made by adding salt and a leavening agentto all-purpose flour. It is commonly used in biscuits and other quick breads, but is not recommended for yeast breads. One cup of self-rising flour contains 1 1/2 teaspoons of baking powder and 1/2 teaspoon salt. Self-rising flour can be substituted for all-purpose flour by reducing salt and baking powder according to these proportions.





Mise en Place

Measure ingredients carefully.

Rules for weighing ingredients

- Be sure the pointer is on zero when you begin.
- Place the container for the ingredient on the scale's platform.
- If using a scale with a fixed dial, place the container on the platform; record the weight of the container. Add the ingredients until the total weight equals the required weight, plus the weight of the container.
- If using a scale with an adjustable dial, place the container on the platform and turn the pointer to zero. Add the ingredients until the dial reflects the required weight.
- If using an electronic scale, press the tare button after the container is placed on the platform.

Rules for measuring dry ingredients

- Use standard measuring equipment.
- Use the largest appropriate standard measuring container to save time and to reduce error.
- Exception: To measure flour, do not use a container larger than 1 quart because flour packs easily.
- Spoon ingredient lightly into the measuring container. (If lumpy, sift before measuring.)
- Exception: Pack brown sugar firmly into the measuring container so it will take the shape of the container when emptied.
- Fill the measuring container to overflowing and level off with a straight-edged spatula.
- Avoid shaking or tapping measuring container.

Rules for measuring liquid ingredients

- Use the largest appropriate standard measuring container.
- Place liquid measuring container on a flat surface.
- Pour liquid into the container until it reaches the desired level.
- Read at eye level when using a clear container. If a metal container is used, look inside the container as the liquid is filled to the desired level.

Muffin Tins

Grease muffin tins by spraying with nonstick cooking spray or brushing with softened margarine, butter, or shortening. Paper liners can be used instead of greasing the muffin tins. If muffin pans are not available, use paper soufflé cups placed on a sheet pan for baking school-made muffins.



Reducing Fat in Quick Breads

Fruit or bean purees are often used as fat substitutes in quick breads. The pectin in these foods forms a film around the tiny air bubbles in the batter, similar to what occurs when you cream solid shortenings with sugar, but not as effectively.

Up to half of the solid fat can be replaced with pureed fruits or vegetables in recipes:

- Applesauce
- Apple or pear puree
- Mashed bananas
- Pureed carrots
- Pureed figs
- Pureed prunes
- Pureed pumpkins
- Pureed cooked white beans
- Pureed cooked black beans
- Pureed sweet potatoes

Applesauce is the favored fruit puree used in quick breads because it is readily available, inexpensive, contains more pectin than other fruit purees, and doesn't impart a strong flavor.

A cup of butter or margarine contains 180 grams of fat and about 1,600 calories, while a cup of applesauce has little or no fat and about 100 calories.

Remember to standardize the recipe for use in your foodservice operation.



What Happened to the Quick Bread?

Quick Bread Problem	What Could Have Happened to Cause It?			
Too little volume	 Ingredients measured incorrectly Incorrect proportions of ingredients in recipe Mixed improperly Liquid too hot and leavening gases escape Oven temperature too low Too large a proportion of acidic ingredients (fruits) Dough or batter held too long before baking when it contained acidic ingredients For biscuits, too much flour used when rolling 			
Pale color	Oven temperature too low Overmixed			
Rough surface	Too much flour Undermixed			
Peaked shape (muffins)	 Wrong size pans Liquid measured incorrectly Overmixed Oven temperature too hig 			
Flat top with only a small peak in center	Oven temperature too low			
Crust too thick	Too much sugar Oven temperature too low			
Texture coarse, tunneled	 Recipe did not have correct proportion of ingredients Inadequate punch down Overmixed 			
Dry	 Too much flour Oven temperature too low Too little liquid Overbaked 			
Tough, elastic	Too little liquid Overmixed			
Unpleasant flavor	 Not enough salt Too much baking powder or soda Poor quality fat or flavorings Soapy or bitter taste due to chemical leaveners not properly mixed in batter 			





Cornbread

ıs/Breads					Grains/Breads	B-09
C STOCK STOCK	20	50 Servings	100	100 Servings	and isolated	
STEPPE STEP	Weight	Measure	Weight	Measure		
Enriched all-purpose flour	1 lb	3% cups	2 lb	1 qt 3 ½ cups	Blend flour, cornmeal or corn grits, sugar, baking powder, and salt in mixer for 1 minute on low speed.	
Cornmeal OR Enriched com arits	1 B OR 0 B	3 % cups OR 2 % cups	2 lb OR 2 lb	1 qt 3 ½ cups OR 1 qt 1 ½ cups		
Sugar	5 ½ oz	% cup	10 ½ oz	1 ½ cups		
Baking powder		2 Tbsp 2 tsp	2 oz	% cup		
Salt		1 1⁄4 tsp		2 ½ tsp		
Frozen whole eggs, thawed OR	5 ½ oz	% cup	10 ½ oz	1 ½ cups	2. Mix eggs, milk, oil, cheese (optional), and chili neppers (optional) Add to dry ingredients and	
Fresh large eggs (see Special Tip)		OR 3 each		OR 6 each	blend for 30 seconds on low speed. Beat until dry ingredients are moistened for 2-3 minutes on medium speed. DO NOT OVERMIX. Batter will be lumpy.	
Instant nonfat dry milk, reconstituted		3 % cups		1 qt 3 ½ cups		
Vegetable oil		½ cup		1 cup		
Reduced fat Cheddar cheese, shredded (optional)	12 oz	3 cups	1 lb 8 oz	1 qt 2 cups		
*Fresh green chili peppers, chopped (optional)	4 oz	% cup 3 Tbsp	8 oz	1 % cups 2 Tbsp		
					 Pour 4 lb 14 oz (2 qt 2 cups) batter into each half-sheet pan (18" x 13" x 1") which has been lightly coated with pan release spray. For 50 servings, use 1 pan. For 100 servings, use 2 pans. 	
					 Bake until lightly browned: Conventional oven: 400° F for 30-35 minutes Convection oven: 350° F for 20-25 minutes 	
					5. Cut each half-sheet pan 5×10 (50 pieces per pan).	

	100 Servings	10 oz
r Selected Items	50 Servings	5 oz
Marketing Guide for	Food as Purchased for	Green chili peppers



Cornbread

Grains/Breads		Grains/Breads B-	B-09
SERVING:	YIELD:	VOLUME:	
1 piece provides 1 serving of grains/breads.	50 Servings: 4 lb 14 oz (batter) 1 half-sheet pan	50 Servings: about 2 quarts 2 cups (batter) 50 pieces	l

100 Servings: 9 lb 12 oz (batter) 2 half-sheet pans

100 Servings: 1 gallon 1 quart (batter) 100 pieces

Edited 2004

Special Tip: For 50 servings, use 1 ½ oz (½ cup) dried whole eggs and ½ cup water in place of eggs.

For 100 servings, use 3 oz (1 cup) dried whole eggs and 1 cup water in place of eggs.

Nutrients Per Serving					
Calories	108	108 Saturated Fat	0.45 g	Iron	0.90 mg
Protein	2.65 g	2.65 g Cholesterol	13 mg	Calcinm	68 mg
Carbohydrate	18.03 g	18.03 g Vitamin A	51 IU	Sodium	151 mg
Total Fat	2.82 g	2.82 g Vitamin C	0.1 mg	0.1 mg Dietary Fiber	1.0 g



Baking Powder Biscuits

Grains,	Grains/Breads					Grains/Breads	B-04
	Above C. So come and	20	50 Servings	100	100 Servings		i
	ingredients	Weight	Measure	Weight	Measure	Directions	i
	Enriched all-purpose flour	3 lb	2 qt 3 cups	ପ 9	1 gal 1 ½ qt	 Blend flour, dry milk, baking powder, and salt in mixer for 1 minute at low speed. 	
	Instant nonfat dry milk	3 oz	1 ½ cups	8 oz	2 ½ cups		
	Baking powder	2 % oz	1/2 cup 2 1/2 Tbsp	5 ½ oz	% cup 1 Tbsp		
	Salt		1 Tbsp		2 Tbsp		
	Shortening	11 ½ oz	1 % cups	1 lb 7 oz	3 ½ cups	Add shortening and blend into dry ingredients for 2 minutes at low speed. Mixture will be crumbly.	
	Water, cold		3 % cups		1 qt 3 ½ cups	Add water and mix for approximately 1 minute on low speed to form soft dough. Scrape bowl as necessary during mixing.	
						 Turn out onto lightly floured surface. For 50 servings, knead ball of dough lightly for 1 minute. For 100 servings, divide dough in half and knead each half lightly for 1 minute. 	
						5. Roll or pat out each ball of dough to ½" thickness. Cut with floured 2 ½" biscuit cutter and place on sheet pan (18" x 26" x 1") in rows of 5 across and 10 down. For 50 servings, use 1 pan. For 100 servings, use 2 pans.	
						6. Bake until lightly browned: Conventional oven: 450° F for 12-14 minutes Convection oven: 400° F for 8-10 minutes	

	50 2 ½ inch biscuits
VOLUME:	50 Servings:
YIELD:	50 Servings: 1 sheet pan
SERVING:	1 biscuit provides 1 1/2 servings of grains/breads.

100 Servings: 2 sheet pans **100 Servings:** 100 2 1/2 inch biscuits

Edited 2004



Baking Powder Biscuits

B-04 Grains/Breads Grains/Breads

Variations:

A. Baking Powder Biscuits (Using Master Mix B-01)
For 50 servings, omit steps 1 and 2. Use 3 lb 12 oz (3 qt) Master Mix.
Continue with steps 3-6.

For 100 servings, omit steps 1 and 2. Use 7 lb 8 oz (6 qt) Master Mix. Continue with steps 3-6.

Cheese Biscuits

B.

For 50 servings, follow steps 1 and 2. In step 3, add 12 oz (3 ½ cups) shredded reduced fat Cheddar cheese to soft dough. Mix lightly to distribute cheese. Continue with steps 4-6.

For 100 servings, follow steps 1 and 2. In step 3, add 1 lb 8 oz (1 qt 3 cups) shredded reduced fat Cheddar cheese to soft dough. Mix lightly to distribute cheese. Continue with steps 4-6.

C. Drop Biscuits

For 50 servings, follow steps 1 and 2. In step 3, use 1 qt $^{3}4$ cup cold water. Omit step 4. In step 5, portion with level No. 16 scoop ($^{1}4$ cup) onto 1 sheet pan (18" x 26" x 1") in rows of 10 down and 5 across. Continue with step 6.

For 100 servings, follow steps 1 and 2. In step 3, use 2 qt 1 1 2 cups cold water. Omit step 4. In step 5, portion with level No. 16 scoop (1 4 cup) onto 2 sheet pans (18" x 26" x 1") in rows of 5 across and 10 down. Continue with step 6.

D. Wheat Biscuits

For 50 servings, in step 1, use 2 lb 4 oz (2 qt) enriched all-purpose flour and 12 oz (2 34 cups) whole wheat flour. Continue with steps 2-6.

For 100 servings, in step 1, use 4 lb 8 oz (4 qt) enriched all-purpose flour and 1 lb 8 oz (1 qt 1 12 cups) whole wheat flour. Continue with steps 2-6.

B-04

Grains/Breads



Baking Powder Biscuits

Grains/Breads

Nutrients Per Serving					
Calories	164	Saturated Fat	1.68 g	Iron	1.44 mg
Protein	3.41 g	Cholesterol	0 mg	Calcium	117 mg
Carbohydrate	22.09 g	Vitamin A	40 IU	Sodium	315 mg
Total Fat	6.80 g	Vitamin C	0.1 mg	Dietary Fiber	0.7 g



Date: ____



Quality Score Card for Quick Breads

Name of Menu Item:

Proudly Prepared by:	Producty Prepared by:						
Quality Scored by:							
•	Mark N/A N TS sect	Not A ion to ex	pplicable plain wh				
QUALITY STANDARD	YES	NO	N/A	COMMENTS			
APPEARANCE							
Color is evenly light to golden brown.	0	0	0				
Slides are even and straight.	О	О	0				
Muffins have slightly rounded tops with no cracks.	О	О	0				
Muffins have rough, pebbled tops.	О	О	О				
Biscuits have level tops with no bumps.	О	О	О				
TEXTURE OR CONSISTENCY							
Crust is tender.	0	O	0				
Crumb is moist but not doughy.	О	О	0				
Texture is even without large holes or tunnels.	О	О	О				
Bread breaks easily without crumbling.	О	О	0				
FLAVOR AND SEASONING							
Bread is fresh-tasting.	O	O	О				

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Bread is free from foreign flavors such as

rancid fat or sour taste.

Flavor is light and pleasing.

60 °F-120 °F

SERVICE TEMPERATURE





Culinary Practice Score Card for Quick Breads

Name(s):		
Purpose: The purpose of the activity is to practice Preparing Quick Breads.		
Culinary Technique: Identify the culinary technique that you will use. Refer to the previous pages feach technique.	or a descripti	on of
Name of the Recipe:		
Date for Production:		
Directions: The manager and school nutrition assistant(s) will select a recipe for a quick bre of the culinary techniques described in this lesson. Check YES or NO when each step is conactivity may be completed individually or with a partner. The manager will make this assign the lesson.)	mpleted. (Thi	s practice
	YES	NO
Plan food production for just-in-time service.		
Did you plan food production for just-in-time service?	O	0
Review the Quality Score Card and the recipe.		
Did you review the recipe so you are familiar with the ingredients, equipment, and directions?	О	O
Did you review the Quality Score Card so you will know how the finished product should look and taste?	О	0
Organize equipment and ingredients.		
Did you assemble all the equipment needed?	O	0
Did you assemble all of the ingredients needed?	О	0
Use the right culinary technique.		
Did you use the culinary technique correctly?	O	\circ
Deliver a quality product.		
Did you use the Quality Score Card to evaluate the product?	0	0
Did you review the product with the manager?	О	O
Discuss the following questions with the manager before serving.		
How can the appearance of the food be improved?		
How can the flavor or taste of the food be improved?		
How can the texture and tenderness of the food be improved?		
How can the service temperature of the food be improved?		
The manager's signature indicates this practice has been completed satisfactorily. The manager should submit it to the central office to document the completion of the lesson.	ld keep this o	n file or
Name of Manager: Date Signed:		





Participant's Workbook

Preparing Seasonings

Time: 1 hour



National Food Service Management Institute
The University of Mississippi





Important Terms

Bouquet Garni (Bo-Ka GAHR-Nee)

A selection of herbs that are wrapped with kitchen twine and put in the food to season it during cooking. The bouquet garni is removed when the desired level of seasoning has been achieved. The twine is used to remove the herbs.

Culinary

Relating to the kitchen or cooking. An example of use is to describe food preparation skills as culinary skills.

Culinary Technique

A step-by-step food preparation method.

Sachet D'Epices (Sa-SHA Day-Pees)

A selection of herbs and spices tied in a cloth bag usually made of cheese cloth. The Sachet D'Epices is used for flavoring soups, stews, and sauces and is removed when cooking is complete.

Caramelize

The heating of a seasoning food until a golden to brown color is developed and the characteristic flavor is developed.

Marinade

A mixture of oil, acid foods, and seasonings used to flavor meats and vegetables.

Mise en Place (meez-un-plahss)

A French term used by chefs and other culinary professionals to describe all the different things that have to be done to get ready up to the point of cooking. Translated, it means *put in place*. It includes all the *get ready steps* in food preparation such as using the recipe to assemble the equipment needed and getting ingredients ready to combine.

Mirepoix (MIHR-pwah)

A mixture of chopped vegetables used in flavoring soup or roasts; generally includes 50% onions, 25% carrots, and 25% celery.

Pungent (PUN-jent)

A sharp taste, biting.

Stock

A flavorful liquid prepared by simmering meat, poultry, fish, and/or vegetables in water until the flavor is extracted.





Spices

Spices are prepared from the roots, buds, flowers, fruits, bark, or seeds of plants. The chart shows some of the basic information about spices.

Name	Form	Taste	Uses
Allspice	Whole berries, ground	The aroma suggests a blend of cloves, cinnamon, and nutmeg; sweet flavor	Fruit cakes, pies, relishes, preserves, sweet yellow vegetables, such as sweet potatoes and tomatoes
Cardamom seed	Whole, ground	Mild, pleasant, sweet ginger-like flavor	Baked goods, apple and pumpkin pies; an important ingredient in curry
Cinnamon	Whole sticks, ground	Warm, spicy sweet flavor	Cakes, buns, breads, cookies, and pies
Cloves	Whole, ground	Hot, spicy, sweet penetrating flavor	Whole cloves for baking hams and other pork, pickling fruits, and in stews and meat gravies; ground cloves in baked goods and desserts and to enhance the flavor of sweet vegetables, such as beets, sweet potatoes, and winter squash
Ginger	Fresh, whole, cracked, ground	Aromatic, sweet, spicy, penetrating flavor	Baked goods; rubbed on meat, poultry, and fish; in stir-fry dishes
Mace	Ground	Strong nutmeg flavor	The thin red network surrounding the nutmeg fruit; used in baked goods where a color lighter than nutmeg is desirable
Mustard	Whole seeds, powdered, prepared	Sharp, hot, very pungent	Meats, poultry, fish, sauces, salad dressings, cheese and egg dishes; whole seeds in pickling and boiled beets, cabbage, or sauerkraut
Nutmeg	Whole, ground	Spicy, pleasant flavor	Seed of the nutmeg fruit for baked goods, puddings, sauces, vegetables; in spice blends for processed meats; mixed with butter for corn on cob, spinach, and candied sweet potatoes
Paprika	Ground	Sweet, mild, or pungent flavor	A garnish spice, gives an appealing appearance to a wide variety of dishes; used in the production of processed meats such as sausage, salad dressings, and other prepared foods
Peppercorns: black, white, red, and pink	Whole, ground, coarse ground	Hot, biting, very pungent	Many uses in a wide variety of foods; white pepper ideal in light colored foods where dark specks might not be attractive
Red pepper (Cayenne)	Ground, crushed	Hot, pungent flavor	Meats and sauces





Herbs

Herbs come from the leaf or soft portions of plants.

Name	Form	Taste	Uses
Anise seed	Seeds	Sweet licorice flavor	Cookies, cakes, fruit mixtures, chicken
Basil	Fresh, dried chopped leaves	Mint licorice-like flavor	Pizza, spaghetti sauce, tomato dishes, vegetable soups, meat pies, peas, zucchini, green beans
Bay leaves	Whole, ground	Flavor distinctly different from celery	Fish, soups, tomato juice, potato salad dressing
Caraway seed	Whole	Sharp and pungent	Baked goods such as rye bread, cheeses, sauerkraut dishes, soups, meats, stews
Celery seed	Whole, ground	Flavor distinctly different from celery	Fish, soups, tomato juice, potato salad different from celery
Chives	Fresh, freeze dried	In the onion family; delicate flavor	Baked potato topping, all cooked green vegetables, green salads, cream sauces, cheese dishes
Coriander seed	Whole, ground	Pleasant, lemon orange flavor	Ingredient in curry, ground form in pastries, buns, cookies, and cakes; in processed foods such as frankfurters
Cilantro	Fresh, dried	Sweet aroma, mildly peppery	Ingredient in Mexican foods
Cumin	Whole seeds, ground	Warm, distinctive salty-sweet resembles caraway	Ingredient in chili powder and curry powder; German cooks add to pork and sauerkraut and Dutch add to cheese
Dill	Fresh, dried, seeds	Aromatic, like caraway but milder and sweeter	Dill pickles; seeds in meats, sauces, salads, coleslaw, potato salad, and cooked macaroni; dill weed in salads, sandwiches, and uncooked mixtures
Fennel seed	Whole	Flavor similar to anise, pleasant sweet licorice	Breads, rolls, apple pies, seafood, pork, and poultry dishes; provides the distinctive flavor to Italian sausage
Marjoram	Fresh, dried whole or ground	Faintly sage like, slight mint aftertaste, delicate	Vegetables, one of the ingredients in poultry and Italian seasoning; processed foods such as bologna
Mint	Fresh leaves or dried flakes	Strong and sweet with a cool aftertaste	Peppermint is the most common variety; popular flavor for candies and frozen desserts; many fruits, peas, and carrots
Oregano	Fresh, dried leaves, ground	More pungent than marjoram, reminiscent of thyme	Pizza, other meat dishes, cheese and egg dishes; vegetables such as tomatoes, zucchini, or green beans; an ingredient in chili powder



Herbs, continued

Name	Form	Taste	Uses
Parsley	Fresh, dried flakes	Sweet, mildly spicy, refreshing	A wide variety of cooked foods, salad dressings, and sandwich spreads
Poppy seed	Whole, crushed	Nut flavor	Whole as a topping for rolls, breads, cakes, cookie, and pastries; crushed in fillings for pastries; over noodles and pasta or rice; in vegetables such as green beans
Rosemary	Fresh, whole leaves	Refreshing, pine, resinous, pungen	Chicken dishes and vegetables such as eggplant, turnips, cauliflower, green beans, beets, and summer squash; enhances the flavor of citrus fruits
Sage	Whole, rubbed, ground	Pungent, warm, groundastringent	Meats, poultry stuffing, salad dressings; cheese; a main ingredient in poultry seasoning blend; an ingredient in a wide variety of commercial meat products
Savory	Fresh, dried whole or ground	Warm, aromatic, resinous, delicate sage flavor	Beans, meats, soups, salads, sauces; an ingredient in poultry seasoning blend
Sesame seed	Whole	Toasted nut flavor	Rolls, bread, and buns
Tarragon	Fresh, dried leaves	An aroma with a hint of anise; licorice flavor, pleasant, slightly bitter	Vinegar, salad dressings, chicken, tartar sauce, and egg salad
Thyme	Fresh, dried, whole or ground	Strong, pleasant, pungent clove flavor	New England clam chowder, Creole seafood dishes, midwest poultry stuffing; blended with butter is good over green beans, eggplant, and tomatoes
Turmeric (Tumeric)	Dried, powder	Aromatic, warm, mild	Prepared mustards; a main ingredient in curry powder; chicken and seafood dishes, rice, creamed or mashed potatoes, macaroni; salad dressing for a seafood salad; in melted butter for corn on the cob



Common Blends of Herbs and Spices

Name	Ingredient	How It Is Used
Apple pie spice	Cinnamon, cloves, nutmeg, mace, allspice, ginger	Baked pies, cakes, pastries
Barbeque spice	Cumin, garlic, cloves, paprika, and other ingredients: chili pepper, salt, sugar	Barbeque sauce, salad dressing, meat casseroles, potatoes
Chili powder	Cumin, garlic, oregano, cloves, allspice, powdered onion, and other ingredients: chili pepper, salt	Chili con carne, gravy, meat stews
Curry powder	Ginger, tumeric, cloves, cinnamon, cumin, black and red pepper, fenugreek seed (a spice specific to this blend)	Indian curry dishes, curry sauces, French dressing, scalloped tomatoes, fish chowders, split pea soup
Poultry seasoning	Sage, thyme, marjoram, savory, sometimes rosemary	Poultry and other stuffing, meat loaf; biscuits served with poultry
Pumpkin pie spice	Cinnamon, nutmeg, cloves, ginger	Pumpkin pie, spice cookies and cakes, gingerbread



E-20

Salads and Salad Dressings



Honey Dressing

100 Servings Directions	Weight Measure	3 lb 8 oz 1 qt 3 cups 1. Combine all ingredients in a mixing bowl. Using a paddle attachment, mix for 3-5 minutes on low speed.	cups 2 lb 2 % cups	sp 2 tsp	up 1 cup	cup 4 oz % cup 2. For best results, chill at least 12 hours prior to
50 Servings	Measure	3 % cups	1 ½ cups	1 tsp	½ cup	% cup
50 Se	Weight	1 lb 12 oz	1 lb			2 oz
Ingredients		Lowfat plain yogurt	Honey	Paprika	Orange juice	Prepared yellow mustard

	bout 1 quart 2 1/4 cups
VOLUME:	50 Servings: abo
(TELD:	50 Servings: about 3 lb 2 oz
SERVING:	2 Tbsp (1 oz ladle).

100 Servings: about 3 quarts ½ cup

100 Servings: about 6 lb 4 oz

Tested 2004

Special Tip: This makes a tasty dipping sauce for chicken or fish nuggets.



Salads and Salad Dressings

Honey Dressing

Nutrients Per Serving		l		l		
Calories	40	Saturated Fat	0.16 g	Iron	0.09 mg	
Protein	0.93 g	Cholesterol	1 mg	Calcium	31 mg	
Carbohydrate	8.93 g	Vitamin A	40 IU	Sodium	25 mg	
Total Fat	0.30 g	Vitamin C	1.1 mg	Dietary Fiber	0.0 g	

E-19



Ranch Dressing

Chill at least 12 hours before serving to allow to thicken. Refrigerate until service. Combine buttermilk and lemon juice in a mixing bowl. Allow mixture to rest for 10 minutes. Using a paddle attachment, blend in the yogurt and sour cream. Let mixture rest for 5 more minutes. Add rest of ingredients to mixture in mixing bowl. Mix for 2-3 minutes on low speed until blended. Salads and Salad Dressings ĸ | qt 2 1/2 cups 2 Tbsp 2 tsp 1 Tbsp 1 tsp 2 ½ cups 3 1/3 cups OR 3 ½ cups 1/4 cup 1 cup ¼ cup 1 tsp 2 tsp OR 1 lb 10 oz 1 lb 10 oz 1 lb 4 oz 8 oz 1 Tbsp 1 tsp 1 1/4 cups 1 % cups OR 1% cups 3 1/4 cups ½ cup 2 Tbsp 2 Tbsp ½ tsp 1 tsp 10 oz 13 oz OR 13 oz 4 oz Ground black or white pepper Reduced calorie salad OR Lowfat mayonnaise Lowfat plain yogurt Light sour cream Granulated garlic Onion powder Dried chives Dried parsley Lemon juice dressing Buttermilk Salt

VOLUME:	50 Servings: about 1 quart 2 1/4 cups
YIELD:	50 Servings: about 3 lb 5 oz
SERVING:	2 Tbsp (1 oz ladle).

100 Servings: about 3 quarts 1/2 cup 100 Servings: about 6 lb 10 oz

Tested 2004

Add an additional 8 oz of reduced calorie salad dressing or lowfat mayonnaise per 50 servings for an excellent vegetable dip. Special Tip:



Salads and Salad Dressings

Ranch Dressing

Nutrients Per Serving		ı		ı	
Calories	35	Saturated Fat	0.52 g	Iron	0.10 mg
Protein	1.05 g	Cholesterol	5 mg	Calcium	35 mg
Carbohydrate	3.50 g	Vitamin A	26 IU	Sodium	181 mg
Total Fat	1.88 g	1.88 g Vitamin C	0.5 mg	Dietary Fiber	0.1 g



Honey-Lemon Chicken

Meat/N	Meat/Meat Alternate					Main Dishes	D-44
	o de la company	S 05	50 Servings	100 \$	100 Servings	Disactions	
	STEATE ST	Weight	Measure	Weight	Measure		i
	Water		1 qt		2 qt	1. Combine water, honey, lemon juice, salt, and pepper in a bowl. Set aside for step 5.	
	Honey	1 lb 7 oz	2 cups	2 lb 14 oz	1 qt		
	Lemon juice		1 cup		2 cups		
	Salt		1 Tbsp 1 tsp		2 Tbsp 2 tsp		
	Ground black or white pepper		2 tsp		1 Tbsp 1 tsp		
	Raw chicken thighs, with bone with skin (approximately 4 oz each)	14 lb 12 oz	50 each	29 lb 8 oz	100 each	2. Remove skin from thighs. Discard. Place 25 chicken thighs in each steamtable pan (12" x 20" x 2 1/2"). For 50 servings, use 2 pans. For 100 servings, use 4 pans.	
						3. Bake: Conventional oven: 400° F for 20 minutes Convection oven: 375° F for 20 minutes	
						4. Drain fat and discard.	
						5. Pour 3% cups of honey-lemon mixture over each pan of chicken thighs.	
						6. Bake until golden brown: Conventional oven: 350° F for 15 minutes Convection oven: 325° F for 15 minutes	
						CCP: Heat to 165° F or higher for at least 15 seconds.	
						7. For glazed appearance, baste after 10 minutes.	
						CCP: Hold for hot service at 135° F or higher.	

100 Servings: about 18 lb 6 oz **100 Servings:** 4 steamtable pans

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D-44

Main Dishes

Honey-Lemon Chicken

Special Tips:

Meat/Meat Alternate

1) To remove skins easily, use a paper towel to grasp skin.

2) A honey-lemon sauce can be made from the baked pan liquids. For each 50 servings, dissolve 1 cup cornstarch in ½ cup cold water. Drain liquid from cooked chicken, remove fat, and strain. Heat 1 qt of honey-lemon sauce until it simmers, 180° F. Add cornstarch-water mixture and simmer until thickened. Pour over chicken before serving. This can be used as a sauce for vegetables or rice.

3) The unbaked honey-lemon sauce may also be used as a marinade. Pour the sauce over the chicken thighs and refrigerate overnight before baking.



Italian Seasoning Mix

G-01 Sauces, Gravies, and Seasoning Mixes

Directions		1. Combine all ingredients.			Store in airtight container. Before using, stir or shake all ingredients well. (Ingredients may settle during storage.)
1 Gallon	Measure	1 qt 1 ½ cups	1 qt 1 ½ cups	1 qt	1 cup
	Weight	8 1/2 OZ	8 oz	4 oz	
1 Quart	Measure	1 ½ cups 2 Tbsp	1 ½ cups 2 Tbsp	1 cup	% cup
	Weight				
Ingredients		Dried basil	Dried oregano	Dried marjoram	Dried thyme

Nutrients Per Serving *		
Calories 14	Saturated Fat	0.07 g Iron 3.00 mg
Protein 0.63 g	0.63 g Cholesterol 0 mg	Calcium 97 mg
Carbohydrate 3.21 g	3.21 g Vitamin A 395 IU	395 IU Sodium 1 mg
Total Fat 0.37 g	0.37 g Vitamin C 2.8 mg	2.8 mg Dietary Fiber 2.1 g
* Nutrients are based upon 2 Tbsp of mix.		